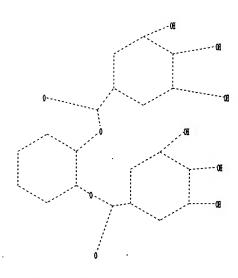
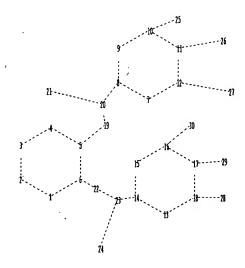
10-764728





chain nodes :

19 20 21 22 23 24 25 26 27 28 29 30

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

5-19 6-22 8-20 10-25 11-26 12-27 14-23 16-30 17-29 18-28 19-20 20-21

22-23 23-24

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18

14-15 15-16 16-17 17-18

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-19 6-22 7-8 7-12 8-9 8-20 9-10 10-11 10-25 11-12 11-26 12-27 13-14 13-18 14-15 14-23 15-16 16-17 16-30 17-18 17-29 18-28 19-20 20-21 22-23 23-24

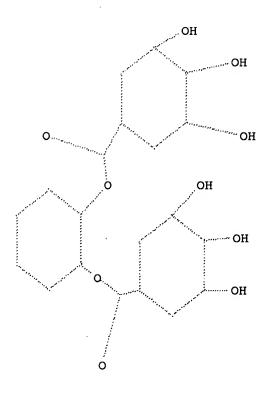
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful FULL SEARCH INITIATED 12:59:49 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 41422 TO ITERATE

100.0% PROCESSED 41422 ITERATIONS

70 ANSWERS

SEARCH TIME: 00.00.01

L2 70 SEA SSS FUL L1

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SINCE FILE TOTAL ENTRY SESSION 172.10 172.31

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:59:52 ON 09 FEB 2007
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10-764728

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L3 70 L2

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L3 ANSWER 1 OF 70
ACCESSION NUMBER:
TITLE:
AUTHOR(S):

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

PUBLISHER:

PUBLISHER:

DOCUMENT TYPE:

L3007:65609 CAPLUS

Antiplasmodial activity of compounds from Sloanea rhodantha (Baker) Capuron var. rhodantha from the madagascar rain forest

Cao. Shoupen; Ranarivelo, Lalasoar Ratsimbason, Michel: Randrianasolo. Sennen: Ratovason, Fidyr Andrianjafy, Mamisoar Kingston, David G. I.

Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA, US CODEN: PLMEAR ISSN: 0032-0943
Georg Thème Verlag
DOCUMENT TYPE:

JOURNAL LANGUAGE:

English

LANGUAGE:

UNIANT TITE: JOURNAL
GUIAGE: English
Entered STN: 21 Jan 2007
Bioassay-directed separation of the butanol-soluble portion of an extract of Sloanea

Bioassay-directed separation of the butanol-soluble portion of an extract Sioanea rhodantha (Baker) Capuron var. rhodantha (Elaeocarpaceae) active against the drug-sensitive HB3 strain of Plasmodium falciparum led to the isolation of 7 phenolic compds., gallic acid (1), 3,5-di-0-galloylaquinic acid (1), 1,6-di-0-galloylaquinic acid (3), 3,4,5-tri-0-galloylaquinic acid (4), 1-0-eudesmoylquinic acid (5), 1,2,3,6-tetra-0-galloylaquinic acid (4), 1-0-eudesmoylquinic acid (5), 1,2,3,6-tetra-0-galloylaquinic acid (4), 1-0-eudesmoylquinic acid (5), 1,2,3,6-tetra-0-galloylaquinic acid (6), and 3,4,5-trimethoxyphenyl-(6'-0-galloylaquinic double acid (6), and 7,4,5-trimethoxyphenyl-(6'-0-galloylaquinic double acid (6), and 7 showed weak inhibitory activity against the drug-sensitive HB3 and the drug-resistant FCM29 strains of P. falciparum, with ICSO values ranging from 8,0-43.0 and 16.1-93.0 µg/mL, resp.
INDEXING IN PROGRESS
99745-62-777, 3,4,5-Tri-0-galloylquinic acid
RL: BSU (Biological study): PREP (Preparation)
(antiplasmodial activity of compds. from Sloanea rhodantha rhodantha)
99745-62-7 CAPLUS
Benzolc acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy-5-bydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 2 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
111TLE:
AUTHOR(S):
CORPORATE SOURCE:
CORPORATE SOURCE:
SOURCE:
CORPORATE SOURCE:
CORP

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

JEHER: Blawier GabH

MEDY TYPE: Journal

MEDY TYPE: Journal

MAGE: STM: 29 Apr 2006

Entered STM: 29 Apr 2006

Four quinic acid gallates ere isolated from the dried pods of Tara

Four quinic acid gallates

Ecasalphinis spinosa (Molina) Kuntzel. These compds. intensified the

susceptibility of methicillin-resistant Staphylococcus aureus (MRSA) to

omacillin. 3,4,5-Tri-O-galloylquinic acid He ester (2) was the most

sfective compound of them.

8668-73-89, 3,4-Di-O-galloylquinic acid 99745-62-7P,

3,4,5-Tri-O-galloylquinic acid 125369-71-3P 735315-08-9P

Rim BSU (Riological study, unclassified) NPO (Natural product

occurrence): PRP (Properties): PVR (Purification or recovery): BIOL

(Riological study): OCCU (Occurrence): PREP (Preparation)

(quinic acid gallates from Tara [Caesalphinis spinosa (Molina) Kuntzel])

8668-73-76 CAPUS

Benzoic acid, 3,4,5-trihydromy-, (ln,2R,3R,5S)-5-carbomy-3,5-dihydromy-1,2
cycloberanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

99745-62-7 CAPLUS Benzoic acid, 3,4,5-trihydromy-, (1R,2m,3R,5m)-5-carbomy-5-hydromy-1,2,3-cyclohemanetriyl ester, rel- (9CI) (CA INDEM NAME)

Relative stereochemistry.

L3 ANSWER 1 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

L3 ANSWER 2 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

125369-71-3 CAPLUS Benzoic acid, 3,4,5-trihydromy-, (1R,2a,3R,5a)-5-hydromy-5-(methomycethonyl)-1,2,3-cyclohemanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

735315-08-9 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2S,3R,5R)-3,5-dihydroxy-5(methoxycarbonyl)-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

ANSWER 2 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

20

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2005:1335793 CAPLUS DOCUMENT NUMBER: 144:408247

TITLE:

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

ANSER 3 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ESSION NUMBER:

LOSION STATE SOURCE:

HOR(S):

HOR(S):

HOR(S):

HOR(S):

HOR(S):

HOR(S):

HOR(S):

Brandt, Wolf F.

Department of Molecular and Callular Biology,
University of Cape Town, Rondabosch, 7701, S. Afr.

JOURNAL OF CODEN: JCECOB: ISSN: 0098-0331

Springer

JOURNAL SCOURCE:

LISHER:

LISHER:

LOCEN:

JOURNAL SCOURCE: JOURNAL SCOURCE JOURNAL JOURNAL

Relative stereochemistry.

L3 ANSWER 4 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2005:842688 CAPLUS DOCUMENT NUMBER: 143:393226

DOCUMENT NUMBER: TITLE:

143:393226
Application of liquid chromatography/electrospray
ionization tandem mass spectrometry to the analysis of
polyphenolic compounds from an infusion of Byrsonima
crassa Niedenzu

crassa Niedenzu
Sannomiya, Miriam; Montoro, Paola; Piacente, Sonia;
Pizza, Cosimo; Brito, Alba R. M. S.; Vilegas, Wagner
Instituto de Quimica, Departamento de Quimica
Organica, UNESP, Aracaquara, CEP 14800-900, Brazil
Rapid Communications in Mass Spectrometry (2005),
19(16), 2244-2250
CODEN: RONSEF; ISSN: 0951-4198
John Wiley & Sons Ltd.
Journal AUTHOR (S): CORPORATE SOURCE:

SOURCE:

PUBLISHER:

CODEN: RCMSEF: ISSN: 0951-4198

John Wiley & Sons Ltd.

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John Wiley & Sons Ltd.

MENT TTPE:
John Wiley & Sons Ltd.

JOURNAL

Entered STN: 22 Aug 2005

A fast and reliable method, based on high-performance liquid chromatog.

coupled to electrospray ionization ion trap tandem mass spectrometry

(RFLC/ESI-ITMS), was developed to investigate the infusion prepared from the

leaves of Byrsonima crassa Niedenzu (Malpighiaceae), a native plant used
in Brazil against gastric disorders. The use of online reverse-phase

HPLC/ESI-ITMS allowed separation of three major classes of compds. and
identification of over 20 very polar compds. characterized as

galloylquinic acids, proanthocyanidins, and flavonoid glycosides, as well
as the dimeric flavonoid amentoflavone and minor ants. of galloyl hexose
and galloyl saccharose. This approach provided data that will allow
establishment of a method for a future standardization of the infusion.

144300-48-1

RL: ANT (Analyte). NPO (Natural product occurrence); ANST (Analytical
study); BIOL (Biological study); OCCU (Occurrence)
(application of HPLC/ESI-ITMS to anal. of polyphenolic compds. from
infusion of Byrsonima crassa Niedenzu)

144300-48-1 CAPLUS

Benzoic acid, 3,4,5-trihydroxy-, (1R,2e,3R,5a)-5-carboxy1,2,3,5-cyclohexanetetry) ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 4 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

33

REFERENCE COUNT:

THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

35

REFERENCE COUNT:

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1072612 CAPLUS
DOCUMENT NUMBER: 142:173332
THILE: The predominant polyphenol in the leaves of the resurrection plant Myrothamnus flabellifolius, 3,4,5 tri-O-galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation Moore, John F.; Westall, Kim L.; Ravenscroft, Well; Farrant, Jill M.; Lindsey, George G.; Brandt, Wolf F. Department of Molecular and Cellular Biology, University of Cape Town, Rondebosch, 7701, S. Afr.
Biochemical Journal (2005), 385(1), 301-308
CODEN: Biochemical Journal (2005), 385(1), 301-308
CODEN: Biochemical Journal (2005), 385(1), 301-308
CODEN: Biochemical Journal (2005) and Journal English
ED Entered STN: 16 Dec 2004
AB The predominant (>90%) low-mol.-mass polyphenol was isolated from the leaves of the resurrection plant Myrothamnus flabellifolius and identified to be 3,4,5 tri-O-galloylquinic acid using H and 13C one- and two-dimensional NMR spectroscopy. The structure was confirmed by mass spectrometric anal. This compound was present at high concns., 44% (by weight) in hydrated leaves and 74% (by weight) in dehydrated leaves. Electron microscopy of leaf material fixed with allutaraldehydra.

spectrometric anal. This compound was present at high conces. 44% (by yeight) in hydrated leaves and 74% (by weight) in dehydrated leaves. Electron microscopy of leaf material fixed with glutaraldehyde and caffeine demonstrated that the polyphenols were localized in large vacuoles in both hydrated and dehydrated leaves. 3.4.5 Tri-O-galloylquinic acid was shown to stabilize an actificial membrane system, lipsosmes, against desiccation if the polyphenol concentration was between 1 and 2 µg/µg phospholipid. The phase transition of these lipsosmes observed at 46° was markedly diminished by the presence of 3.4.5 tri-O-galloylquinic acid, suggesting that the presence of the polyphenol maintained the membranes in the liquid crystalline phase at physiol, temps. 3.4.5 Tri-O-galloylquinic acid was also shown to protect linolet acid against fere radical-induced oxidation 3.4.5 Tri-O-galloylquinic acid was shown to stabilize an artificial membrane system. Hipsosceps, against desiccation if the polyphenol concentration was between 1 and 2 µg/µg phospholipid.

No Syld-5-2-7P, 3.4.5 Tri-O-galloylquinic acid
NL: BSU (Biological study, unclassified), NPO (Natural product occurrence), PRP (reperties), PUR (Purification or recovery), BIOL (Biological study), OCCU (Occurrence), PRP (Preparation)

(PI; predominant polyphenol in leaves of Myrothamnus flabellifolius, 3.4.5 tri-O-galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation)

99745-62-7 CAPLUS

Benzolc acid, 3.4.5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy-5-Wydroxy-1,23-ocyclobexnetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ACCESSION NUMBER:

DOCUMENT NUMBER:

ANSWER 6 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
2004:1058742 CAPLUS
142:686
E: Antibacterial drug selection computer program and memory media for infection from resistant bacteria
NTOR(S): Higuchi, Tomhikkor Shibata, Hirofuni/ Sato, Yoichi;
Uesugi, Shigeruy Kobayashi, Masaki
XLIMERS K-laboratories for Intelligent Medical Remote Services, Enkaku Iryou-laboratories Co., Ltd., Japan, Alps Pharmaceutical Ind. Co., Ltd.
GCE: Jph. Kokai Tokkyo Koho, 17 pp.
CODEN: JKCKAF
MENT TYPE: Patent TITLE: INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE JP 2004348471 A 20041209 JP 2003-145248 20030522
PRIORITY APPIN. INFO:

ED Entered STN: 10 Dec 2004 JP 2003-145248 20030522
ED Entered STN: 10 Dec 2004
B Antibacterial drug selection computer program and memory media and data bases are offered for drug screening for infection from resistant bacteria with different genotypes, including methicillin-resistant staphylococcus. The antibacterials include antibiotics and pharmaceutical natural

The antibacterials include antibiotics and pharmaceutical natural products.
125369-71-3 735315-08-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antibacterial drug selection computer program and memory media for infection from resistant bacteria)
125369-71-3 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-hydroxy-5- (methoxycarbonyl)-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

735315-08-9 CAPLUS

ANSVER 6 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Benzoic acid, 3,4,5-trihydroxy-, (1R,2s,3R,SR)-3,5-dihydroxy-5(methoxycarbonyl)-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry

ANSWER 7 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

735315-08-9 CAPLUS
Benzoic acid, 3,4,5-trihydromy-, (1R,2S,3R,5R)-3,5-dihydromy-5(methomycarbonyl)-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 7 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:648378 CAPLUS DOCUMENT NUMBER: 141:167738 DOCUMENT NUMBER: TITLE: 141:167/JS
Medicinal composition for treating infection with drug-resistant Staphylococcus aureus
Higuchi, Tomihkos Shibata, Hirofumi, Sato, Yoichi, Takaishi, Nobuhisa; Kawazoe, Kazuyoshi; Murakami, INVENTOR(S): Takaishi, Nobuhisa; Kawazoe, Kazuyoshi; Mc Kotaro Alps Pharmaceutical Ind. Co., Ltd., Japan PCT Int. Appl., 34 pp. CODEN: PIXXD2 Patent Japanese 1 PATENT ASSIGNEE (S): SOURCE: DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE W0 2004066992 A1 20040812 W0 2004-JF751 20040128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CH, CO, CR, CU, CZ, DE, DK, MH, DZ, BZ, EE, BG, ES, FI, GB, GB, GE, GH, GM, HR, EU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, HD, MG, MK, MN, MW, MX, MZ, NA, NI EP 1604660 A1 20051214 EF 2004-705942 20040128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, SE, CZ, EE, HU, SK 2006235076 A1 20061019 US 2005-633336 20050725 A1 20061019 US 2003-20611 A 20030129 RS SOURCE(S): MARPAT 141:167738 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 141:167738

ED Entered STN: 12 Aug 2004

B) Disclosed is a therapy for infection with a drug-resistant bacterium with the use of a characteristic of a polyhydric phenol derivative and/or Tara

spectric
method, use for producing a medicinal composition, a disinfectant and a
functional food containing a polyhydric phenol derivative and/or Tara
set For

functional food containing a polyhydric phenol derivative and/or Tara
extract For
example, a sugar-coated tablet was formulated containing isoamyl gallate 5,
oxacillin 5, lactose 100, starch 30, Me cellulose 50, and talc 3 mg.

IT 12369-71-3 73515-08-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(B-lactam antibiotic activity potentiator containing polyhydric phenol
derivs, and/or Tara exts. for treating infection with drug-resistant
Staphylococcus aureus)

RN 125369-71-3 CAPIUS
CN Benzoic acid, 3,4,5-trihydroxy-, (18,2a,3R,5a)-5-hydroxy-5(methoxycarbonyl)-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

DOCUMENT NUMBER: TITLE:

ANSWER 8 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
SSION NUMBER: 2004:631765 CAPLUS
HENT NUMBER: 141:173963
E: Nitric oxide synthase inhibitors containing ring

INVENTOR(S): Watanabe, Masamichi; Ino, Akira; Yasui, Takeshi; Kato,

Shionogi and Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 47 pp. CODEN: JKXXAF Patent PATENT ASSIGNEE(S): .

Japanese 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. DATE JP 2004217600 A
PRIORITY APPLN. INFO.:
ED Entered STN: 06 Aug 2004 20040805 JP 2003-9668 JP 2003-9668 20030117 20030117

Nitric oxide synthase (NOS) inhibitors having the formula (I) (ring A is optionally substituted hydrocarbon ring or the hetero ring (except parazolopyrimidine): X = single bond, -0-, -(GR2A)m0-, -0(GR2A)m0-, -0-(GR2A)m0-, -0-(

ANSWER 8 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 9 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:483478 CAPLUS
DOCUMENT NUMBER: 142:48469
TITLE: Structure-activity relationships of synthetic analogs of (-)-epigallocatechin-3-gallate as proteasome inhibitors
AUTHOR(S): Kazi, Aslamuzzaman; Wang, Zhigang; Kumar, Naveen; Falsetti, Samuel C.; Chan, Tak-Hang; Dou, Q. Ping
CORPORATE SOURCE: Marie Ma

LNCaP) 808196-20-5 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2S)-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 9 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 908196-22-7, GTP 4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (GTP-4 significantly increased p27, IxB-a, Bax and polyubiquitinated protein in LNCaP cells, human Jurkat T cells than GTP-1, -2, -3 suggesting requirement of A-ring for inhibiting proteasome activity in GTP-4) 808196-22-7 CAPLUS
Benzoic acid, 3.4,5-trihydroxy-, (2R, 3S)-1, 2, 3, 4-tetrahydro-2, 3-naphthalenediyl ester (9CI) (CA INDEX NAME)

808196-23-8, GTP 5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(GTP-5 significantly increased p27, IxB-a, Bax and polyubiquitinated protein in LMCaP cells, human Jurkat T cells than GTP-1, -2, -3 suggesting requirement of A-ring for inhibiting proteasome activity in GTP-5)
808196-23-8 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (2R, 35)-1,2,3,4-tetrahydro-6-hydroxy-2,3-naphthalenediyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 9 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

REFERENCE COUNT:

41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:998044 CAPLUS
DOCUMENT NUMBER: 141:446
Constituents of Hiraea reclinata and their anti-HIV
activity

TITLE: Constituents of Hiraea reclinata and their anti-HIV activity
AUTHOR(S): Hussein, Ahmed A.; Gomez, Basilio; Ramos, Marla; Heller, Maria; Coley, Phyllis D.; Solis, Pablo N.; Gupta, Mahabir P.
CORPORATE SOURCE: Centro de Investigaciones Farmacognosticas de la Flora Panamena, Facultad de Farmacia, Universidad de Panama, Apartado, 10767, Panama
SOURCE: Revista Latinoamericana de Quimica (2003), 31(2), 74-77
CODEN: RLAQAB; ISSN: 0370-5943
PUBLISHER: Laboratorios Mixim S.A de C.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 23 Dec 2003
AB From the methanolic extract of Hiraea reclinata, seven known compds. were isolated. Only 1,3,4,5-tetragalloyl quintc acid showed anti-HIV activity.
IT 14300-40-1P
RL: PAC (Pharamacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES (Uses)

(anti-HIV activity of Hiraea reclinata constituents: methanolic extract

mature leaves yielded seven compds., 1,3,4,5-tetragalloyl quinic acid showed anti-HIV activity) 144300-48-1 CAPUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy-1,2,3,5-cyclohexanetetrayl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 11 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
110:235398
110:235398
110:235398
Enhancement effect of 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide and cationic surfactant on the chemiluminescence of poly(3, 6, 5-trihydroxybenzoate ester)dendrimers
Nakazono, Manabur Yamasaki, Naokar Ha, Lir Zattsu, Kiyoshi
CORPORATE SOURCE:
CORPORATE SOURCE:
University, Higashi-ku, Fukuoka, 812-8582, Japan
Luminescence (2003), 18(4), 239-242
CODEN: LUMIFC: ISSN: 1522-7235
John Wiley & Sons Ltd.
Journal English
ED Entered STN: 19 Oct 2003

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

In the presence of 1-ethyl-3-(3-dimethylaminopropyl) carbodimide (EDC), the chemiluminescence (CL) intensities of poly(3,4,5-trihydroxybenzoate ester)dendrimers, I and II, having 1,2-pyrocatechol and 1,3,5-trihydroxybenzene as core mols. and also six and nine gallic acid units in the periphery, were resp. 7.4- and 2.4-fold stronger than those of I and II in the absence of ECC. Similarly, the CL intensities of I and II in the presence of cetyltrimethylammonium bromide (CTAB) were resp. 4-and 1.7-fold stronger than those of I and II in the absence of CTAB. S80041-65-0 583041-66-1
RI: PRP (Properties)
(enhancement effect of 1-ethyl-3-(3-dimethylaminopropyl) carbodimide and cationic surfactant on chemiluminescence of poly(3,4,5-trihydroxybenzoate ester)dendrimers)
S83041-65-0 CAPLUS
Benzoic scid, 3,4,5-tris[(3,4,5-trihydroxybenzoyl)oxy]-, 1,2-phemylene ester (SCI) (CA INDEX NAME)

L3 ANSWER 10 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN (CONTINUED)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT .

L3 ANSWER 11 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

593041-66-1 CAPLUS
Benzoic acid, 3,4,5-tris[(3,4,5-trihydroxybenzoyl)oxy]-,
1,3,5-benzenetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 11 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

__ OH

L3 ANSWER 12 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
139:204801
Chemiluminescent polyphenol dendrimers and their
compositions for high-sensitivity chemiluminescent
analysis
analysis
SURCE:
2aitsu, Kiyoshi, Nakazono, Manabu
Sangaku Renkei Kiko Kyushu K. K., Japan
Jon. Kokai Tokkyo Koho, 13 pp.
CODEN: JOCAF
DOCUMENT TYPE:
LANGUAGE:
PAMILUT ACC. NUM. COUNT:
13panese
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. DATE JP 2003238495 A
PRIORITY APPLM. INFO.:
ED Entered STN: 28 Aug 2003
GI JP 2002-44398 JP 2002-44398 20030827 20020221

AB The polyphenol dendrimers have core sites, branched sites, and terminals represented by general formula 1 (RI = H, aliphatic hydrocarbyl, alicyclic hydrocarbyl, aromatic hydrocarbyl, halo, ether, ester, acyl, anino, cyano, nitro, heterocyclic these groups may have substituents 3 GM locate adjacent to each other). The GH on the terminal groups are capable of forming H bonds with anal. Objects. The polyphenol dendrimers may have core sites represented by general formula II and III [R2 R3, - any definitions given for R1 nl = 1-6 integer, n2 - 1-5 integer; X (generation) ≥1 integer]. The compns. contain the polyphenol dendrimers and ≥1 of sensitizers selected from dicyclohesylcarbodiimide, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC), cetyltrimethylammonium bromide (CDAB), Na dodecylsulfonate (SDS), poly(oxyethylene) (20)sorbitan monolaurate (Tween 20), and poly(oxyethylene) (20)sorbitan trioleate (Tween 25).

monolaurate (Tween 20), and poly(oxyethylene)(20)sorbitan trioleate (Twee 85).

IT 583041-65-0P 583041-66-1P
RL: ANG (Analytical reagent use): IMF (Industrial manufacture): ANST (Analytical study): PREP (Preparation): USES (Uses)
(chemiluminescent polyphenol dendrimers bearing OH terminals and their comps. with sensitizers for high-sensitivity chemiluminescent anal.)

RN 583041-65-0 CAPLUS

L3 ANSWER 11 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 2-A

PAGE 3-A

REFERENCE COUNT: THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) Benzoic acid, 3,4,5-tris|(3,4,5-trihydroxybenzoyl)oxy]-, 1,2-phenylene estar (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

583041-66-1 CAPLUS
Benzoic acid, 3,4,5-tris[(3,4,5-trihydroxybenzoyl)oxy]-,
1,3,5-benzenetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 12 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

∼oH

L3 ANSWER 12 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

PAGE 3-A

L3 ANSWER 13 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

CAPLUS COPYRIGHT 2007 ACS on STN
2003:187734 CAPLUS
2003:187734 CAPLUS
2019:1982
Antioxidant activity of galloyl quinic derivatives
isolated from P. lentiscus leaves
Baratto, Maria Camilla, Tattini, Massimiliano;
Galardi, Callottar, Pinelli, Patrizias Romani,
Annaliss, Visioli, Francesco; Basosi, Riccardo; Pogni,
Rebecca

Galardi, Gariotta; Pinelli, Patrizis; Romani,
Annalisa; Visioli, Francesco; Basosi, Riccardo; Pogni,
Rebecca

CORPORATE SOURCE: Dipartimento di Chimica, Universita degli Studi di
Siena, Siena, I-53100, Italy
SOURCE: Free Radical Research (2003), 37(4), 405-412

CODEN; FRANKRI ISSN: 1071-5762

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal
LANGUMGE: Taylor & Francis Ltd.

DE Entered STN: 11 Mar 2003

AB The antioxidant properties of galloyl quinic derive, isolated from
Pistacia lentiscus L. leaves have been investigated by means of ESR
spectroscopy (EFR) and UV-Vis spectrophotometry. Antioxidant properties
have been also estimated using the biol. relevant LDL test. The scavenger
activities of gallia caid, and 50-galloyl, 3,5-0-digalloyl, and
3,4,5-0-trigalloyl quinic acid derive, have been estimated against
1,1-diphonyl-2-piorylhydrazyl (UPFR) radical, superoxide (02-) radical,
and hydroxyl (01) radical. On the whole, the scavenger activity increased
as the number of galloyl groups on the quinic acid skeleton increased. The
half-inhibition conces. (IC50) of di- and tri-galloyl derive, did not
exceed 30 µM for all the tested free radicals. All the tested
metabolites strongly reduced the oxidation of Lov-d. lipoproteins (LDL),
following a trend similar to that observed for the scavenger ability against
Orcedial.

IT 99/45-62-7 (APLUS
RESU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study) unical derive. isolated from P. lentiscus leaves exhibit
antioxidant activity toward reactive oxygen species)

NN 99745-62-7 (APLUS
Relative stereochemistry.

Relative stereochemistry.

ANSWER 13 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2002:788591 CAPLUS DOCUMENT NUMBER: 138:107090

DOCUMENT NUMBER: TITLE:

138:107090
Synthesis of poly(3,4,5-trihydroxybenzoate ester)
dendriners and their chemiluminescence
Nakazono, Nanabuw Na, Lir Zaitzu, Kiyoshi
Graduate School of Pharmaceutical Sciences, Kyushu
University, Higashi-Lin, Pukuoka, 812-8582, Japan
Tetrahedron Letters (2002), 43(45), 8185-8189
CDDEN: TELEATY ISSN: 0040-4039
Elsevier Science Ltd. AUTHOR(S): CORPORATE SOURCE:

SOURCE:

PUBLI SHER:

DOCUMENT TYPE: LANGUAGE: Journal

UMENT TYPE: Journal SUAGE: English Entered STN: 16 Oct 2002 (Sallic acid Me ester (GM), polyphenol callic acid (GA) and gallic acid Me ester (GM), polyphenol chemiluminescence (CL) compds., produce light in the presence of alkali and hydrogen peroxide. First-generation polyphenol dendrimers with GA units in the periphery were synthesized in order to obtain polyphenol compds. with a strong CL intensity. The CL intensities of the poly(3,6,5-trihydroxybenzoate ester) dendrimers are approx. 400- and 600-fold stronger than that of GA, resp. 486997-19-7P
RI: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) IT

RL: RCT (Reactant) SPN (Synthetic preparation) PREP (Preparation) PRACT (Reactant or reagent) (First generation dendrimer: synthesis of poly(3,4,5-trihydroxybenzoate ester) dendrimers and their chemiluminescence) 486997-19-7 CAPIUS Benzoic acid, 3,4,5-trihydroxy-, 1,2-phenylenehis(carbonyl-5,1,2,3-benzenetetrayl) ester (9CI) (CA INDEX NAME)

PAGE 1-A

L3 ANSWER 15 OF 70 CAPLUS COPPRIGHT 2007 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

137:329320

Identification and quantification of galloyl derivatives, flavonoid glycosides and anthocyanins in leaves of Pistacia lentiscus L.

AUTHOR(S):

AUTHOR(S):

AUTHOR SOURCE:

FORDORATE SOURCE:

PUBLISHER:

DOCUMENT TYPE:

DOCUMENT TYPE

Low ants. Or carrents, which are a first state of the leaf dry weigh, and appreciable ants. of myricetin derivs, were also detected. These findings may be useful in establishing a relationship between the chemical composition of

ostion of the leaf extract and the previously reported biol. activity of P. lentiscus, and may also assign a new potential role of P. lentiscus tissue exts. in human health care.

9745-62-7, 3,4,5-0-Trigalloylquinic acid
RL: NPO (Natural product occurrence): PRP (Properties): BIOL (Biological study): OCCU (Occurrence)

(identification and quantification of galloyl derivs., flavonoid glycosides and anthooyanins in leaves of Pistacia lentiscus)

99745-62-7 CAPIUS

Benzoic acid, 3,4,5-trihydromy-, (IR,2m,3R,Sm)-5-carbomy-5-bydromy-1,2,3-cyclohemanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 14 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

9

(Continued)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:646295 CAPLUS
DOCUMENT NUMBER: 136:205135
ITILE: 156:205135
Inhibitory effects of tannins on tyrosinase activity
AUTHOR(S): Cho, Su-Min, Kin, Jee-Min, Lee, Min-Von
CORPORATE SOURCE: Seen of Pharmacry, Chung Ang University, Seoul, 156-756, S. Korea
SOURCE: Seen of Pharmacry, Chung Ang University, Seoul, 156-756, S. Korea
PUBLISHER: DOCUMENT TYPE: JOURNAL ISSN: 0253-3073
Korean Society of Pharmacognosy
Journal Korean

UNGE: Korean
Entered STN: 05 Sep 2001
For the use of tannins in the whitening-effect cosmetics, inhibitory effect against tyrosinase activity was determined Three condensed tannins including gallocatechin, gallocatechin 3'.4'-di-o-gallate and epicatechin 3-0-gallate and three hydrolyzable tannins, 1,2,6-tri-0-galloyl-β-D-glucose, 2,3-(S)-HEHDP-D-glucose and pedunculagin showed 15-29% mild inhibitory effects against tyrosinase activity.

RE: COS (Cosmetic use): 226 CPR

400773-30-0
RL: COS (Cosmetic use); PAC (Pharmacological activity); BIOL (Biological study); USES (Uses)
(tannins for inhibition of tyrosinase)
400773-30-0 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-[(2R,3S)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-2-yl]-3-hydroxy-1,2-phenylene ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 18 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:69138 CAPLUS
TITLE: 132:262227
HPLC isolation, identification and quantification of tannins from Guiera senegalensis
AUTHOR(S): Bouchet, Mathalies Levesque, Joel Pousset, Jean-Louis
Faculte de Medectine et de Pharmacie, Laboratoire de Pharmacognostic, Poitiers, 86005, Fr.
Phytochemical Analysis (2000), 11(1), 52-56
CODEN: FIAMEL, ISSN: 0958-0344
John Wiley & Sons Ltd.
Journal
ANGUAGE: Entered STN: 30 Jan 2000
AB Nine galloylquinic acids, namely, 3-0-, 5-0-, 1,3-di-0-, 3,4-di-0-, 3,5-di-0-, 4,5-di-0-, 1,3,4-tri-0-, 3,4-5-terta-0galloylquinic acids, resisolated by column chromatog. and preparative
HPLC from different parts of Guiera senegalensis. HPLC methods for the
different plant parts. Isolation methods were performed using a solvent
gradient dependent on the tannin composition An isocratic method was used
to
quantify the main tannin (3,4,5-tri-0-galloylquinic acid) and

quantify the main tannin (3,4,5-tri-O-galloylquinic acid) and 1,3,4,5-tetra-O-galloylquinic acid, which has already been studied with respect to its pharmacol. activities, as well as 3,5-di-O- and 4,5-di-O-galloylquinic acids. The leaves, galls, stems and roots showed quant. and qual. differences with respect to the chemical composition of

their
tannins.

IT 53505-97-8P 86687-37-8P, 3,4-Di-O-galloylquinic acid
94414-04-7P 123166-70-IP 263244-51-5P
RL: ANT (Analytic): PUR (Purification or recovery): ANST (Analytical
study): PREP (Preparation)
(HPLC isolation, identification and quantification of tannins from
Guiera senegalensis)
RN 53505-97-8 CAPLUS
CN Benzoic acid, 3,4,5-trihydromy-, (1R,25,3R,5R)-5-carbomy-3,5-dihydromy-1,2cyclohemanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 17 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:811999 CAPLUS DOCUMENT NUMBER: 134:97898

DOCUMENT NUMBER: TITLE:

DOCUMENT NUMBER: 104:97898 CAPIUS
TITLE: Gallotannins and related polyphenols from Pistacia weinmannifolia
AUTHOR(S): Hou, Ai-Juni Peng, Li-Yan; Liu, Yan-Zer Lin, Zhong-Wen Sun, Han-Dong
CORPORATE SOURCE: Laboratory of Phytochemistry, Kunming Institute of Botany, Academia Sinitas, Kunming, Peop. Rep. China Planta Medica (2000), 66(7), 624-626
CODEN: PIMEAN, ISSN: 0032-0943
FUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 20 Nov 2000
AB Two new gallotannins, pistafolins A and B, were isolated from the leaf extract of Pistacia weinmannifolia. Their structures were determined by spectral.

extract of Fistacia weinmannifolia. Their structures were determined by titral methods. Four known gallotannins, seven known flavonoid glycosides, along with 1-0-p-D-(6'-0-galloy)]-glucopyranosyl-3-methoxy-5-hydroxybenzene, gallic acid, Me gallate, (+)-catechin, and (+)-gallocatechin, were also isolated. Some of these compds. were tested for their cytotoxicity toward K562 cells, and two small mol. phenolic compds., gallic acid and (+)-gallocatechin, showed significant inhibitory effects with IC50 values less than S µg/mL.

318955-28-1P, 4,5-Dl-O-Galloylquinic acid
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, BIOL (Biological study); OCCU (Occurrence); PRFP (Preparation) (isolation, structure and cytotoxicity of gallotannins and related polyphenols from Pistacia weinmannifolia)
318955-28-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (15,25,35,5R)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 12

ANSWER 18 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN 86687-37-8 CAPLUS (Continued)

ANSWER 18 OF TO CAPTUS CONTINUES TO THE SECOND SECO

Absolute stereochemistry.

94414-04-7 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2q,3R,5q)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

123166-70-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME)

L3 ANSWER 18 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

263244-51-5 CAPLUS
Benzolc acid, 3,4,5-trihydroxy-, (15,2R,4R,6R)-4-carboxy-6-hydroxy-1,2,4-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 10

PAGE 1-A

ANSWER 19 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

REFERENCE COUNT:

20

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 19 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1999:470146 CAPLUS isj::7:70140 CAFEDS

133::253871

Binding affinities of gallotannin analogs with bowine serum albumin: ramifications for polyphenol-protein molecular recognition

Feldman, K. S.; Sambandam, A.; Lemon, S. T.;

Nicewonger, R. B.; Long, G. S.; Battaglia, D. F.;

Ensel, S. M.; Laci, M. A.

Department of Chemistry, The Pennsylvania State University, University Park, PA, 16802, USA Phytochemistry, (1999), 51(7), 867-872

CODEN: PYTCAS: ISSN: 0031-9422

Elsevier Science Ltd.

Journal English

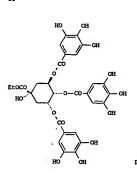
CASREACT 131:253871

Ig 1999 131:253871 DOCUMENT NUMBER: TITLE: AUTHOR (S): CORPORATE SOURCE: SOURCE: PUBLISHER: DOCUMENT TYPE: LANGUAGE: LANGUAGE: ENGLANGE CASERACT 131:253871

ED Entered STN: 02 Aug 1999

AB A series of gallotannin analogs were prepared by chemical synthesis, and affinity for the test-case protein bovine serum albumin was measured by equilibrium dialysis. The structure/activity data obtained suggest that the naturally occurring gallotannins, in fact, do not represent the optimal protein recognition agents amongst polyphenolated templates.
245109-49-39 245109-49-3P
AL: BPR (Biological process); BSU (Biological study, unclassified); SPN
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC
(Process)
(binding affinities of gallotannin analogs with bovine serum albumin
and ramifications for polyphenol-protein mol. recognition)
245109-49-3 CAPLUS
myo-Inositol, hexakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME) Relative stereochemistry.

L3 ANSWER 20 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:573899 CAPLUS
DOCUMENT NUMBER: 129:173093
TITLE: 3,4,5-Tri-0-galloylquinic acid ethyl ester from Guiera senegalensis
Bouchet, Nathalie; Levesque, Joel; Bodo, Bernard;
Pousset, Jean-Louis
Laboratoire de Pharmacognosie, Faculte de Medecine et
de Pharmacie, Poitiers, 86005, Fr.
Pharmaceutical Biology (Lisse, Netherlands) (1998),
36(1), 63-65
CODEN: PHBIFC: ISSN: 1388-0209
Swets & Seitlinger B.V.
Journal
English senegalensis AUTHOR (S): CORPORATE SOURCE: SOURCE: PUBLISHER: DOCUMENT TYPE: LANGUAGE: ED Entered ST GI JAGE: English Entered STN: 10 Sep 1998



A new polyphenol, 3,4,5-tri-O-galloylquinic acid Et ester (I), accompanied by other quinic acid gallates, 3,5-di-O-, 3,4,5-tri-O-, and 1,3,4,5-teri-O-, and logical sector, acid, was isolated from the leaves of Guiers senegalenois (Combretaceae). 211388-30-EP RL: BOC (Biological occurrence): BSU (Biological study, unclassified): PRP (Properties): PUR (Purification or recovery): BIOL (Biological study): OCCU (Occurrence): PREP (Preparation) (3,4,5-tri-O-galloylquinic acid Et ester from Guiera senegalenois) 211388-30-6 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5- (ethoxycarbonyl)-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 20 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

94414-04-7F 123166-70-1F RL: BOC (Biological occurrence): BSU (Biological study, unclassified): PUR (Purification or recovery): BIOL (Biological study): OCCU (Occurrence): PREP (Preparation) IŦ

(quinic acid gallates from Guiera senegalensis)
94414-04-7 CAPUIS
Benzoic acid, 3.4,5-trihydroxy-, (IR, 2a, 3R, 5a)-5-carboxy-5hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

123166-70-1 CAPLUS

ANSWER 20 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy 1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME) (Continued)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:454361 CAPLUS
DOCUMENT NUMBER: 129:197563
STLDY on the inhibitory effect of tannins and flavonaids against the 1,1-diphenyl-2-picrylhydrazyl

AUTHOR (S):

radical Yokozava, Takakor Chen, Cui Ping; Dong, Erbo; Tanaka, Takashi; Nonaka, Gen-Ichiro; Nishioka, Itsuo Research Institute for Wakan-Yaku, Toyana Medical and Pharmaceutical University, Toyana, 930-0194, Japan Biochemical Pharmacology (1998), 56(2), 213-222 CODEN: BCPCAG6; ISSN: 0006-2952 Elsevier Science Inc. CORPORATE SOURCE:

CODEN: BCPCA6: ISSN: 0006-2992
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: Busines Inc.
DOCUMENT TYPE: Journal
LANGUAGE: Entered STN: 22 Jul 1998
AB Fifty-one tannins and forty-one flavonoids isolated from Oriental
medicinal herbs were evaluated for their antioxidant ability with a
1,1-diphenyl-2-picrylhydrazyl (DPPH) radical-generating system. The
results showed that tannins and certain flavonoids are potential
free-radical scavengers, and that their activity against the DPPH radical
is closely associated with their chemical structure. A commanison of the

is closely associated with their chemical structure. A comparison of the classes of compds. showed that tannins have more potential than flavonoids because almost all the tannins demonstrated significant scavenging action within a low concentration range, whereas the activity of flavonoids varied distinctively among the different compds. An increase of galloyl groups, mol. weight, and ortho-hydroxyl structure enhanced the activity of tannins, whereas the number and position of hydroxyl groups were important features for the scavenging of free radicals by flavonoids. Moreover, it appeared that when the free hydroxyl group was methoxylated or glycoxylated, the inhibitory activity was obviously decreased or even abolished. 145108-20-9 145108-21-0 189977-23-3, 3,4-Di-0-galloyl shikmic acid RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, USES (Uses) (inhibitory effect of tannins and flavonoids against 1,1-diphenyl-2-piccylhydraxyl radical) 145108-20-9 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,25,3R,5R)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester, rel- (9CI) (CA INDEX NAME)

ANSWER 21 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

145108-21-0 CAPLUS
Benzaic acid, 3,4,5-trihydroxy-, (1R,2S,4S,6S)-4-carboxy-6-hydroxy-1,2,4-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 2-A

L3 ANSWER 21 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

188977-23-3 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (15,25,6R)-4-carboxy-6-hydroxy-3-cyclohexene-1,2-diyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 22 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

99745-62-7 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2e,3R,5e)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

110082-89-8 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, 4-carboxy-6-hydroxy-1,2,4-cyclohexanetriyl ester, [lR-[la,2 β ,4 α ,6 α]- (9CI) (CA INDEX RAMS)

Absolute stereochemistry.

ACCESSION NUMBER: 1998:306463 CAPLUS
DOCUMENT NUMBER: 129:117439
TITLE: Radical Towards

Radical scavenging activity and antioxidant properties of tannins from Guiera senegalensis (Combretaceae) Bouchet, Nathalie; Barrier, Laurence; Fauconneau, Bernard AUTHOR (5):

CORPORATE SOURCE:

Bernard Laboratoire de Pharmacognosie, Faculte de Medecine et de Pharmacle, Poitiers, F-86005, Fr. Phytotherapy Research (1999), 12(3), 159-162 CODEN: PHYRH: ISSN: 0951-418X John Wiley & Sons Ltd.

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

CODEN: PHYREH; ISSN: 0951-418X

John Wiley & Sons Ltd.

JOHNERT TYPE: Journal

Eduace: English

Entered STN: 25 May 1998

The antioxidant properties of nine tannins isolated and characterized from different parts of Guiera senegalensis were evaluated. Interesting results showed that galloylquinic acids (hydrolyzable tannins), resulting from a tri- or tetra-substitution of galloyl groups on the quinic acid skeleton, played a crucial role in the inhibitory effect on Fe2-induced lipid peroxidn. in rat liver microsomes and radical scavenger activity in the 1,1-diphenyl-2-picrylhydrayl (DPPR) test. The effects of all tannins were markedly higher than that of gallic acid. Condensed tannins such as epicatechin and epigallocatechin gallate also showed fairly significant effects in both tests.

53505-97-8 99745-62-77, 3,4,5-tri-o-galloylquinic acid
110082-89-8 123166-70-1

RE: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); TRU (Thecapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (radical scavenging activity and antioxidant properties of tannins from Guiera senegalensis (Combretaceae))
53505-97-8 CARIUS

Benzoic acid, 3,4,5-trihydrowy-, (IR,25,3R,5R)-5-carboxy-3,5-dihydrowy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 22 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

123166-70-1 CAPLUS
Benzoic acid, 3.4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME)

ANSWER 22 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

13

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

128:268213
Tannins and related compounds from Erodium moschatum
(L.) L'Her
Lin, Jer-Hueir, Lin, Mei-Fan
Department of Health, Executive Yuan, National
Laboratories of Foods and Drugs, Taipei, Taiwan
Yaowu Shipin Fenni (1997), 5(4), 347-354
CODEN: YSFEEP; 15SN: 1021-9498
National Laboratories of Food and Drugs, Dep. of
Health, Executive Yuan
Journal AUTHOR (5): CORPORATE SOURCE: SOURCE: PUBLISHER: DOCUMENT TYPE: MAGE: Southai UAGE: English Entered STN: 03 Apr 1998 Erodium moschatum is a newly naturalized plant in Taiwan. From the aqueous acetone extract of the fresh herb, seventeen tannins and related compds. acetone extract of the fresh herb, seventeen tannins and related composisolated. They included five phenolcarboxylic acids and ester including:
protocatechnic acid, gallic acid, Me gallate, caffelc acid,
brevifolincarboxylic acid; four gallotannins: 3-0-galloylshikimic acid,
3,4-di-0-galloylshikimic acid, 3,5-di-0-galloylshikimic acid,
1-0-galloyl-B-D-glucose; six ellagitannins and other related composwhich include corilagin, furosin, geranin, acetonylgeranin A, Me gallate
3-0-B-D-glucoside, gallic acid 3-0-B-D-(6'-0-galloyl)-glucoside
and two flavonoids; keempfecol, quercetin. These structures were
identified on the basis of their phys. data and spectroscopic evidence.
1889977-23-3, 3,4-D-0-galloylshikimic acid
Al: BOC (Biological occurrence), BSU (Biological study, unclassified),
BIOL (Biological study), OCCU (Occurrence)
(tannins and related compds. from Erodium moschatum)
1889977-23-3 CAPUS
Benzoic acid, 3,4,5-trihydroxy-, (15,25,6R)-4-carboxy-6-hydroxy-3cyclobexne-1,2-diyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 17

L3 ANSWER 24 OF 70 CAPLUS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER: 1997:655654 CAPLUS
DOCUMENT NUMBER: 127:298548 Interpretation
INVENTOR(S): Dermatologic preparation
Murase, Takatochi; Hase, Tadashi; Tokimitsu, Ichiro
Rao Corporation, Japan
PCT Int. Appl., 32 pp.
CODEN: PIXONO
DOCUMENT TYPE: 170002
Patent
Japanese DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO. DATE WO 9735618 A1 19971002 WO 1997-Jreso
W: CM, US, VN
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
JP 09255547 A 19970930 JP 1996-66077 19960322
JP 1996-66077 A 19960322

188977-23-3
RI: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (dermatch, preparation containing NFwB activation inhibitor); 188977-23-3 CAPLUS
BENZOIC acid, 3,4,5-trihydroxy-, (15,25,6R)-4-carboxy-6-hydroxy-3-cyclohexene-1,2-diyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 25 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:520938 CAPLUS
DOCUMENT NUMBER: 127:259292
Lignams and tannins as inhibitors of viral reverse transcriptase and human DNA polymerase-e: QSAR analysis and molecular modeling
Liu, Karin C.S. Chen; Lee, Shoei-Sheng; Lin, Hei-Tsu; Chang, Chia-Wen; Liu, Chao-Lin; Lin, Jung-Yaw; Hsu, Feng-Lin; Ren, Shijun; Lien, Eric J.

CORPORATE SOURCE: School of Pharmacy, College of Hedicine, National Taiwan University, Taipei, Taiwan
Medicinal Chemistry Research (1997), 7(3), 168-179
CODDE: MCREEB ISSN: 1054-2523
Birkhaeuser
DOCUMENT TYPE: Journal

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

ISHER: Birkhaeuser
MENT TYPE: Journal
UNGE: English
Entered STN: 15 Aug 1997
The inhibitory activities against HIV-1 virus reverse transcriptase (RT)
and human DNA polymerase-a (hDWAP-e) of 15 lignans and tannins
isolated from Chinese berbs were correlated with physicochem. parameters
(µ, log nol. weight, Hb, I). From the overall shapes of 3-D structures, a
T-shaped perpendicular ring system gave the best differential inhibition
against HIV-1 RT, whereas a more complicated w-shaped ring system was
associated with high inhibition against both HIV-1 RT and hDWAP-a.
These findings indicate that there are different structural requirements
for the inhibition of each of the target enzymes.
86697-37-8, 3,4-D1-O-galloylquinic acid 94414-04-7
129159-07-5, 3,4-5-Tri-O-galloylshikinic acid 188977-23-3
, 3,4-D1-O-galloylshikinic acid 188977-23-3
, 3,4-D1-O-galloylshikinic acid
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): PRP (Properties): BIOL (Biological study)
(lignans and tannins as inhibitors of viral reverse transcriptase and
human DNA polymerase-a: QSAR anal. and mol. modeling)

Benzoic acid, 3,4,5-trihydroxy-, (IR,2R,3R,55)-5-carboxy-3,5-dihydroxy-1,2cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

94414-04-7 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 25 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

129159-07-5 CAPLUS
Benzoic acid, 3,4,5-trihydromy-, 5-carbomy-4-cyclohemene-1,2,3-triyl ester, [1R-(1a,2ß,3ß)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

188977-23-3 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (15,25,6R)-4-carboxy-6-hydroxy-3-cyclohexene-1,2-diyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 26 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1997:315140 CAPLUS
1152:288100
NF-+8 activation inhibitors, antiviral agents, and immunosuppressants containing gallic acid derivatives
NUMENTOR(S):
FATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
TOPORMATION:
1997:315140 CAPLUS
1997:3151

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE ---- -----APPLICATION NO. PATENT NO. JP 1995-215983 JP 1995-215983 19950824 19950824

The NF-KB activation inhibitors and the antiviral agents contain all selected from gallic acid esters I [R = CI-28 linear or branched (hydroxy) alkyl, (hydroxy) alkenyl], (b) tannine containing galloyl group, and (c) tannins having heaphydroxydiphenoyl group Q as active ingredients. Immunosuppressants containing (b) and/or (c) as active ingredients are also claimed. The inhibitors are useful for treatment of infections with viruses, e.g. HIV, HTLV-I, CMV, and adenovirus, whose transcription is promoted by NF-KB. Octyl gallate showed 65% inhibition against IL-le-stimulated activation of NF-KB in cultured vascular epithelial cells. Formulations containing gallate esters or 1,2,3,6-tetragalloylglucose are also given.

ANSWER 25 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 26 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RL: BAC (Biological activity or effector, except adverse): BSU (Biological
study, unclassified): THU (Therapeutic use): BIOL (Biological study): USES
(Uses)
(NF-KB activation inhibitors, antiviral agents, and
immunosuppressants contg. gallic acid esters or tannins)
188977-23-3 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (15,25,6R)-4-carboxy-6-hydroxy-3cyclohexene-1,2-diyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 27 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:276958 CAPLUS
100CUMENT NUMBER: 126:255293
Maillard reaction inhibitors containing tannin (hydrolyrates), and skin-lightening and antiaging cosmetics containing them
Uchino, Reijiro: Myashita, Rumiko: Mizuno, Takashi
Nippon Flour Mills, Japan
Jpn. Kokai Tokkyo Koho, 5 pp.
COUDEN: URXXAF
Patent
Pat

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO.

JP 09040519 A 19970210 JP 1995-189950 19950726

PRIORITY APPIN. INFO::

DE Entered STN: 30 Apr 1997

AB Commetics contain hydrolyzable tannin and/or its hydrolyzates as Maillard reaction inhibitors. Tannic acid at 100 µg/ml completely suppressed Maillard reaction between lysocyme and fructose. A tannic acid-containing skin-lightening cream was formulated.

IT 99745-62-77 188443-24-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); BSU (Biological ture, unclassified); PNU (SES (Uses)

(Skin-lightening and antiaging cosmetics containing tannin (hydrolyzates) as Maillard reaction inhibitors)

RN 99745-62-7 CAPUS

CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- (SCI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 27 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

188443-24-5 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester, [1R-{1a,2a,3a,5a}]- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 28 OF 70 CAPLUS COPTRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:476586 CAPLUS
COCUMENT NUMBER: 125:230320
TITLE: HIV-inhibitory natural products. Part 27.
HIV-inhibitory natural products.

Absolute stereochemistry.

94414-04-7 125369-71-3
RL: BOC (Biological occurrence): BSU (Biological study, unclassified): THU
(Therapeutic use): BIOL (Biological study): OCCU (Occurrence): USES (Uses)
(HIV-inhibitory gallotannins from Lepidobotrys stauditi)

ANSWER 28 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Con 94414-04-7 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME) (Continued)

Absolute stereochemistry.

125369-71-3 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2x,3R,5x)-5-hydroxy-5(methoxycarbonyl)-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 29 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:255355 CAPLUS
DOCUMENT NUMBER: 1,3-di-0-galloylquinic acid from Guiera senegalensis
AUTHOR(S): Bouchet, Nathalier Levesque, Joel; Blond, Alain; Bodo,
Bernard Pousset, Jean-Louis
CORPORATE SOURCE: Laboratoire Pharmacognosie, Faculte Medecine
Pharmacie, Politiers, 86005, Fr.
Phytochemistry (1996), 42(1), 189-90
CODEN: PYTCAS; ISSN: 0031-9422

Elsevier PUBLISHER: DOCUMENT TYPE: LANGUAGE:

JOHENT TYPE: Journal

KGUAGE: English

Entered STN: 01 May 1996

A new polyphenol, 1,3-di-0-galloylquinic acid, and the known quinic acid
gallates, 3-0., 4-0-, 5-0-, 3,4-di-0-, 4,5-di-0-, 3,5-di-0-, 3,4,5-tri-0and 1,3,4,5-tetra-0-galloylquinic acid were isolated from the galls of
Guiera senegalensis.

53505-97-8 86687-37-8, 3,4-Di-0-galloylquinic acid
99745-62-7, 3,4,5-tri-0-galloylquinic acid 144300-48-1

RL: BOC (Biological study); OCCU (Occurrence)

(galloylquinic acid from Guiera senegalensis)

BOS-97-8 CAPLUS

Benzolc acid, 3,4,5-trihydromy-, (1R,2S,3R,5R)-5-carbomy-3,5-dihydromy-1,2cyclohemanediyl ester (9CI) (CA INDEM NAME)

Absolute stereochemistry.

86687-37-8 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanedlyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 29 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 29 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

99745-62-7 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- [9CI] (CA INDEX NAME)

Relative stereochemistry.

144300-48-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy1,2,3,5-cyclohexanetetrayl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 30 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
1717LB:
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
COEN MOCHER:
COEN MOCHER:
COEN MOCHER:
COEN MOCHER;
SOURCE:
COEN: MOCHER;
SOURCE:
COEN: MOCHER;
SOURCE:
COEN: MOCHER;
SSPINOR:
SSPI

PUBLISHER: DOCUMENT TYPE: Springer Journal

PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English
CHERN SOURCE(5): CASREACT 124:202851

ED Entered STN: 29 Dec 1995

AB A synthesis of the potential pharmaceutical agents 3,4,5-trigalloylquinic acid and 1,3,4,5-tetragalloylquinic acid is described. It involves three steps starting from com. available quinic acid and provides overall yields of about 15%. The acylation of benzyl or 4-nitrobenzyl quinate with tribenzylgalloyl chloride is the key step. It leads selectively to the tribenzylgalloyl chloride is the key step. It leads selectively to the tribenzylgalloyl uniate is ease of benzyl quinate and can be either stopped at the triacyl stage or driven to the tetracyl derivative in the case of the 4-nitrobenzyl quinate. From the chiroptical properties of the two compds. their stereochem was derived by means of the benzoate rule.

19414-04-7P 123166-70-1P

RL: SPN (Synthesic preparation); PREP (Preparation) (synthesis and chiroptical properties of the tri- and tetra-galloylquinic acids from quinic acid)

NN 9444-04-7 CAPIUS

CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-carboxy-5- hydroxy-1,2,3-cyclohexametriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

123166-70-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME)

L3 ANSWER 30 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN Absolute stereochemistry. (Continued)

L3 ANSWER 31 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:994852 CAPLUS
DOCUMENT NUMBER: 124:76489
TITLE: 1995:994852 CAPLUS
124:76489
FICH ANGUAGE: 1995:994852 CAPLUS
124:76489
Bloassay for reverse transcriptase inhibitors
Fridland, Ancold, Robbins, Brian L.
St. Jude Children's Research Hospital, USA
POT Int. Appl., 51 pp.
CODEN: TIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: 17XD2
PATENT INFORMATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524507 W: MX	A1	19950914	WO 1995-US3036	19950309
บร 5576177	A	19961119	US 1994-208109	19940309
CA 2120096	A1	19950910	CA 1994-2120096	19940328
PRIORITY APPLN. INFO.:			US 1994-208109 A	19940309

RAFT AFFIN. 18FO.: US 1994-208109 A 19940309
Entered STN: 22 Dec 1995
The present invention relates generally to methods and kits for determining

the

bodily level of a reverse transcriptase inhibitor or therapeutic compound or

matabolite thereof used to treat retrovirus infection, particularly HIV-1
infection. Included is e.g. determination of zidovudine triphosphate

levels in

peripheral blood mononuclear cells in vitro.

199745-62-7, 34,5-Tri-0-galloylquinic acid 147920-67-0

RL: ANT (Analyte); HIM (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

(reverse transcriptase inhibitor bioassay)

RN 99745-62-7 CAPLUS

CN Banzoic acid, 3,4,5-trihydroxy-, (1R,2x,3R,5x)-5-carboxy-5hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 31 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

147920-67-0 CAPLUS Benzolc acid. 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexylester, [lR-[$(a,2a,3\beta,5a)$]- (9CI) (CA INDEX NAME)

2

L3 ANSWER 31 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CRN 149-91-7 CMF C7 H6 05

L3 ANSWER 32 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1995:751109 CAPLUS DOCUMENT NUMBER: 123:217713

DOCUMENT NUMBER: TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE

PUBLI SHER

ANSER 32 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ESSION NUMBER: 1995:751189 CAPLUS

LE: Differential inhibition of reverse transcriptase and capture to the control of the c

Absolute stereochemistry.

ANSWER 32 OF 70 CAPILIS COPYRIGHT 2007 ACS on STN (Continued)

129159-07-5 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-carboxy-4-cyclohexene-1,2,3-triyl
ester, [IR-(la,2,8,38)]- (SCI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 32 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

95753-51-8 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-carboxy-3-hydroxy-4-cyclohexene-1,2-diyl ester, [lR-(la,20,30)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

99745-62-7 CAPLUS Benzolc acid, 3,4,5-trihydroxy-, (1R,2e,3R,5e)-5-carboxy-5-hydroxy-1,2,3-cyclohexametriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 33 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
11717LE:
AUTHOR(S):
CORPORATE SOURCE:
CORPORATE SOURCE:
CAPLUS COPYRIGHT 2007 ACS on STN
1995:445600 CAPLUS
122:281420
The inhibitory effect of tannins on lipid peroxidation of rat heart mitochondria
Hong, Chuang-Ye, Wang, Chein-Ping, Huang, Shiang-Suo,
Hsu, Feng-Lin
Institute Traditional Medicine, Yang-Ming University,
Taipei, Taiwan

Institute Traditional Medicine, Yang-Ming University Taipei, Taiwan Journal of Pharmacy and Pharmacology (1995), 47(2), 138-42 CODEM: JPPMAB, ISSN: 0022-3573 Royal Pharmaceutical Society of Great Britain Journal

SOURCE:

PUBLI SHER: DOCUMENT TYPE:

LANGUAGE:

MENT TYPE: Journal MANGE: English Entered STM: 28 Mar 1995
Entered STM: 28 Mar 1995
We induced lipid peroxidn. In rat heart mitochondria with ferrous sulfate (Ps504) and compared the inhibitory effect of various tannins on the peroxidn. Oxygen consumption and maiondialdehyde (MDA) formation were used to quantitate the amount of lipid peroxidn., and the free radical scavenger activity of tannins was measured with a diphenyl-p-picryl hydrazyl (DPPH) method. Of 25 tannins and related compds. tested, catechin benzylthicether and procyanidin B-2 benzylthicether were the most potent in inhibiting lipid peroxidn. with inhibitory effects stronger than that of trolox, a water soluble analog of vitamin E. The concession

than that of trolox, a water soluble analog of vitamin E. The concns. (5)

required for catechin benzylthioether and procyanidin B-2 benzylthioether to inhibit oxygen consumption to 50% of control values were 0.85 and 2.0 µM, resp., while their IC50 values from the inhibition of MDA formation were 0.9 and 1.70 µm, resp. The IC50 values for catechin and procyanidin B-2 to inhibit oxygen consumption were 34.0 and 11.0 µM. Both compds. were less potent than their benzylthioether derivs. However, the ability of catechin and procyanidin B-2 to scavenge DPH were similar to that of their benzylthioether derivs. We conclude that conjugation with a benzylthioether group enhances the inhibitory effect of tannins on lipid peroxidn. and that the mechanism is not an increase in its scavenger activity. (86687-378-8, 3,4-01-0-galloy) quinic acid RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) inclassified); BIOL (Biological study) (BSOR-37-8) (A-01-0-galloy) (BSOR-37-8) (BSOR-3 (IC50)

L3 ANSWER 33 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 34 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:450109 CAPLUS
DOCUMENT NUMBER: 121:50109
TITLE: Tanha-metal(III) ion complexes, their preparation, and their pharmaceutical uses
ACCESSION NUMBER: 121:50109
TITLE: Tanha-metal(III) ion complexes, their preparation, and their pharmaceutical uses
ACCESSION ACCESS

Absolute stereochemistry.

L3 ANSWER 34 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 35 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:315207 CAPLUS
DOCUMENT NUMBER: 120:315207
TITLE: Inhibition of HIV infection by caffeoylquinic acid
derivatives derivatives
AUTHOR(S): Halmood, N. / Moore, P. S. / De Tommasi, N. / De Simone,
F. Colman, S. / Hay, A. J. / Pizza, C.
CORPORATE SOURCE: Collaborative Cent., MRC, London, NW7 1AD, UK
Antiviral Chemistry & Chemotherapy (1993), 4(4),
235-40

DOCUMENT TYPE: Journal
LANGUAGE: English
The caffeoylquinic acids 3,4,5-tri-O-caffeoylquinic acid (I) and
4,5-di-O-caffeoylquinic acids (II), as well as caffeic acid and synapoic
acid were isolated from the plant Securidaka longipedunculata
(Polygalaceae): I exhibited a greater selective inhibition of HIV
replication than II, which had an anti-HIV activity similar to that of
3,4,5-tri-O-galloylquinic acid, isolated from Guiera sengalensis
(Combretaceae): caffeic acid and synapoic acid were ineffective, and the
structurally related compound rosmarinic acid had only slight anti-HIV
activity. Studies of the actions of these compds. suggested that their
inhibition of the viral reverse transcriptase in vitro is nonspecific and
that they act by specific binding to gpl20, which prevents its interaction
with CD4 on T-lymphocytes and thus inactivates virus infectivity.

IT 9745-62-7
RL: BIOL (Biological study)
(human immunodeficiency virus inhibition by)

80 9745-62-7
RD BIOL (Biological study)
(human immunodeficiency virus inhibition by)

R 99745-62-7
R Benzoic acid, 3,4,5-trihdroxy-, (1R,2a,3R,5a)-5-carboxy-5hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

HO OH OH OH OH OH

L3 ANSVER 36 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1994:124105 CAPLUS DOCUMENT NUMBER: 120:124105

DOCUMENT NUMBER: TITLE:

Tannina as potent inhibitors of DNA topoisomerase II

AUTHOR (S):

in vitto Kashiwada, Yoshiki; Nonaka, Genichiro; Nishioka, Itsuo; Lee, Kenneth Jiann Hung; Bori, Ibrahim; Pukuhima, Yasuhiro; Bastow, Kenneth F.; Lee, Ruo

Foruntas, Issunitor hastow, kenneth F.F. Lee, Rud Hsiung Nat. Frod. Lab., Kyushu Univ., Fukuoka, 812, Japan Journal of Pharmaceutical Sciences (1993), 82(5), 487-92 CDDEN: JPMSAEr ISSN: 0022-3549 CORPORATE SOURCE: SOURCE:

Journal

DOCUMENT TYPE:

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal
LANGUAGE: English
Entered STN: 19 Mar 1994

B Fifty-two out of 60 tannins, including gallo-, ellagi, condensed, and complex tannins, are inhibitors of human DNA topoisomerase II in vitro. Thirty-six compds. that completely inhibited enzyme activity at a concentration of 500 nM or less, as assessed by ATP-dependent unknotting of P4 phage DNA, were at least 100-fold more potent than the clin. useful antitumor agent etopside (PP-16). Relative inhibitory activity was primarily related to the number of phenolic hydroxyl groups (galloyl and hexabydroxydiphenoyl moieties) found in the active structures, with more groups generally conferring increased potencies. Unlike VP-16 and some DNA intercalative agents that stabilize the topoisomerase II-DNA cleavage intermediate, none of the active compds. induced protein-linked DNA breaks by 20% or more, but one of these compds., (-)-epicatechin, was not an inhibitor in vitro. These data suggest that some tannins, such as sanguin H-6, that are potent inhibitors of catalytic double DNA-strand passage in vitro may target intracellular enzyme activity in a similar fashion to known poisons that interfere with formation of the enzyme-DNA covalent interediate.

IT 99745-62-7, 3/4,5-fri-0-galloylpuinic actid 144300-48-1

RE BIOL (Biological study)

(DNA topoisomerase II-inhibiting activity of, structure in relation to)

RN 99745-62-7 CAPLUS

N Benzoic acid, 3,4,5-trhydroxy-, (1R, 2a, 3R, 5e)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetryl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 36 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN Relative stereochemistry. (Continued)

145108-21-0 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2S,4S,6S)-4-carboxy-6-hydroxy-1,2,4-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 36 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

144300-48-1 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2q,3R,5q)-5-carboxy-1,2,3,5-cyclohexanetetrayl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

145108-20-9 CAPLUS Benzoic acid. 3,4,5-trihydroxy-, (1R,2S,3R,5R)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanedlyl ester, rel- (9CI) (CA INDEX NAME)

L3 ANSWER 36 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

OH

L3 ANSWER 37 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:424645 CAPLUS
DOCUMENT NUMBER: 119:24645
TITLE: Tetragalloy/quinic acid, the major antiasthmatic principle of Galphimia glauca
AUTHOR(S): Namer. H. Wanner. H.

CORPORATE SOURCE:

SOURCE:

Wagner, H. Trener, B. Mueller, A. Dorsch, W. Wagner, H. Cent. Res. Inst. Chem., Rung. Acad. Sci., Budapest, B-1025, Rhung.
Planta Medica (1993), 59(2), 164-7
CODEN: PLNEARY ISSN: 0032-0943

DOCUMENT TYPE:

COMENT TYPE: Journal
GUAGE: English
Entered STN: 24 Jul 1993
In the search for antiasthmatic principles in plant drugs, a bioguided
fractionation of an alc. extract of Galphimia glauca was performed using a
plethysmog. in vivo model. Tetragalloylqunic acid (G1), which was found
together with other compds. (gallic acid, Me gallate, ellagic acid, and
flavenoid acylglycosides), showed the highest activity spainst bronchial
hyperreactivity and allergic reactions. Using mass and NWR spectroscopy
in commination with energy calcns., the structure G1 was elucidated as
tetra-O-galloylquinta acid. Depending on the solvent used, the quintc
acid skeleton can occupy a fixed conformation or several interconverting
ones on the NWR time scale.
123166-70-1
RN: BIOL (Biological sturby)

123166-70-1
RI: BIOL (Biological study)
(from Galphimia glauca, isolation and conformation and antiasthmatic activity of)
123166-70-1 CAPLUS
Benzoic acid, 3,4,5-trihydromy-, (1R,2a,3R,5e)-5-carbomy1,2,3,5-cyclohemanetetrayl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 38 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:400314 CAPLUS

119:314

ANTHOR(S): ANTHORY AND ANT

Absolute stereochemistry.

125637-30-1 CAPLUS Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-,4-catboxy-4-hydroxy-2,6-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexylester, [15-(1α ,2 α ,4 α ,6 β)]- (9CI) (CA INDEX NAME)

Q1 1

CRN 94414-04-7

L3 ANSWER 37 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 38 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN CMF C28 H24 O18 (Continued)

Absolute stereochemistry.

CO₂H

147920-67-0 CAPLUS Benzoic acid, 3,4 (or 3,5)-dihydroxy-5 (or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexylester, [IR-(Ia,2a,3 β ,5a]]- (9CI) (CA INDEX NAME)

CRN 94414-04-7 CMF C28 H24 O18

L3 ANSWER 38 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

2

CRN 149-91-7 CMF C7 R6 O5

. СО2Н

147920-68-1 CAPLUS Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-, 5-carboxy-5-hydroxy-2,3-bis((3,4,5-trihydroxybenzoyl)oxy]cyclohexylester, [1R-(1a,2 β ,3 β ,5 β)]- (9CI) (CA INDEX NAME)

CH 1

CRN 94414-04-7 CMF C28 H24 O18

Absolute stereochemistry.

L3 ANSWER 38 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

2

L3 ANSWER 39 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
11993:109682 CAPLUS
118:109682
118:109682
Pharmaceuticals containing a gallic aid derivative and/or quercetin and method for isolating them Wagner, Hildebert Dorsch, Walter
PATENT ASSIGNEE(S):
PATENT ASSIGNEE(S):
PATENT TYPE:
LANGUAGE:
PANILY ACC. NUM. COUNT:
1
CODEN: GWICKEN
German
FAMILY ACC. NUM. COUNT:
1
COPYRIGHT 2007 ACS on STN
1993:109682 CAPLUS
1993:109

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATI	E APPLICATION NO.	DATE
DR 4106026	A1 1997	20827 DE 1991-4106026	19910226
DE 4106026	C2 1993	30826	
EP 501205	A1 1992	20902 EP 1992-102061	19920207
EP 501205	B1 1995	50524	
R: AT, BE, CH,	DE, DK, ES,	FR, GB, GR, IT, LI, LU, NL	. PT. SE
US 5260335		31109 US 1992-837840	19920218
JP 05213744	A 1993	30824 JP 1992-39862	19920226
JP 3114895	B2 2000	1204	
PRIORITY APPLN. INFO.:		DE 1991-4106026	A 19910226
ED Entered STN: 19 Ma	r 1993		

I (R1-R3 - H. galloyl, digalloyl) R4 - H. galloyl) along with gallic acid, its Me ester, and quercetin, can be used as pharmaceuticals for treating inflammation. Thus, tetragalloylquinic acid (II) was isolated from Galphimis glauce along with other I. II showed the highest activity at 5 mg/kg against allergy (bronchial reactions).

106195-91-9144300-48-1 145120-36-1

145928-79-6146074-63-7

145928-79-6146074-63-7

145928-79-6146074-63-7

145928-79-6146074-63-7

145928-79-6146074-63-7

145928-79-914904-7

145928-79-914904-7

156195-91-914904-7

156195-91-914904-7

156195-91-914904-7

156195-91-914904-7

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156195-914904-7

156195-9149

L3 ANSWER 39 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

144300-48-1 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy-1,2,3,5-cyclohexanetetrayl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

145120-36-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 39 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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145928-79-6 CAPLUS
Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-,4-cachoxy-4-hydroxy-2,6-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl ester (9CI) (CA INDEX NAME)

CH.

CRN 145120-36-1 CMF C28 H24 O18

ANSWER 39 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 2-A

CPI 2

CRN 149-91-7 CMF C7 H6 O5

L3 ANSWER 39 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 2-A

CM 2

CRN 149-91-7 CMF C7 H6 O5

146074-63-7 CAPLUS
Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]5-catboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl
ester (9CI) (CA INDEX NAME)

СН 1

CRN 145120-36-1 CMF C28 H24 018

L3 ANSWER 40 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:93861 CAPLUS
DOCUMENT NUMBER: 118:93861
AUTHOR(S): Anithmor agents, 129. Tannins and related compounds as selective cytotoxic agents
AUTHOR(S): Kashiwada, Yoshikii Nonaka, Genchiro; Nishioka, Itsuo; Chang, Jer Jang, Lee, Kuc Hsiung
CORPORATE SOURCE: Sch. Pharm., Univ. North Carcolina, Chapel Hill, NC, 27599, USA
SOURCE: Journal of Natural Products (1992), 55(8), 1033-43
CODEN: JWRRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 19 Mar 1993
AB Fifty-seven tannins and related compds., including gallotannins, ellagitannins, and condensed and complex tannins, were evaluated for their cytotoxicities against human tumor cell lines, including malignant melanoma, lung carcinoma, leococcal adenocarcinoma, epiderenoid carcinoma, malignant melanoma, and medulloblastoma cell lines. Among them, chebulagic acid, geranin, sanguith H-11, 4,5-dt-0-gallcylpedunculagin, furosin, castalagin, sanguith H-2, vescalagin, grandinin, phyllyraecidin A, (-)-epicatechin 3-0-gallate, cinnamtannin B2, and acutissimin A exhibited moderate selective cytotoxicity against PRMI-7951 melanoma cells with EDSO values in the range of 0.1-0.8 mg/mL. Selective cytotoxicity against procyanidin = 2-2,3'-d'-0-gallate, procyanidin A, and procyanidin = 2-2,3'-d'-0-gallate, procyanidin C-13,3',3''-tri-0-gallate, man cinnamtannin B1 with EDSO values of 1-4 mg/mL. All of the tannins were found to be inactive (>10 mg/mL) against lung carcinoma (A-549), ileoceal adenocarcinoma (ET-671) tumor cells.

IT 9745-62-7 144300-48-1 145108-20-9
145108-21-0
RL BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Santitumor activity of)
RN 99745-62-7 CAPLUS
Relative stereochemistry.

L3 ANSWER 40 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

144300-48-1 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2m,3R,5m)-5-carboxy-1,2,3,5-cyclohexanetetrayl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

145108-20-9 CAPLUS
Benzuic acid. 3,4,5-trihydroxy-, (1R,2S,3R,5R)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester, rel- (9CI) (CA INDEX NAME)

L3 ANSWER 40 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

OH

 $\mbox{L3}$ $\,$ ANSWER 40 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN Relative stereochemistry. (Continued)

145108-21-0 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2S,45,6S)-4-carboxy-6-hydroxy-1,2,4-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE: ED Entered ST AB A methanol

ANSWER 41 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

ESSION NUMBER: 1992:604931 CAPLUS

LE: Antiasthmatic effects of Galphimia glauca, gallic Actid, and related compounds prevent allergen—and platelet—activating factor—induced bronchial obstruction as well as bronchial hypereactivity in guinea pigs

HOR(S): Dorsch, W., Bittinger, M., Kaas, A., Mueller, A., Kreher, B., Wagner, H.

FORATE SOURCE: Child. Hosp., Johannes Gutenberg Univ., Mainz, D-W-6500, Germany

INCE: International Archives of Allergy and Immunology (1992), 97(1), 1-7

CODEM: INALEG: ISSN: 1018-2438

JOURNAI TYPE: Journal Bouland: Journal GUAGE: English

Entered STN: 28 Nov 1992

A methanolic extract from Galphimia glauca (320 mg/kg, orally) inhibited acute bronchial reactions to allergen (ovalbumin, 10 mg/ml) and platelet—activating factor (PAF, 1 µg/mL) inhalation challenges, but not to histamine or acetylcholine in spontaneously breathing guinea pigs. Furthermore, the PAF-induced bronchial hyperreactivity was markedly reduced. Gallic acid and related compds. as well as the [lavonoid, quercetin showed significant effects after a single oral dose of 45 mg/kg, whereas tetragalloyl quinic acid showed effects after a dose of 5 mg/kg, whereas tetragalloyl quinic acid showed effects after a dose of 5 mg/kg, containing all active compds. reduced allergen—and PAF-induced bronchial reactions by more than 704.

18. BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): BIOL (Biological study)

(antiasthmatic activity of, from Galphimia glauca)

144300-48-1 CAPIUS

Benzoic acid, 3,4,5-trihydrowy-, (1R,2a,3R,5a)-5-carbowy1,2,3,5-cyclohexanetetrayl ester, rel- (SCI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 41 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 42 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:S03646 CAPLUS
107:103646 Prevention of binding of rgp120 by anti-HIV active tannins
AUTHOR(S): Veaver, James L., Pine, P. Scott; Dutschman, Ginger, Cheng, Yungchi, Lee, Kuo Hsing; Aszalos, Adorjan Div. Res. Test., Food and Drug Adm., Washington, DC, 20204, USA
SOURCE: Biochemical Pharmacology (1992), 43(11), 2479-80 CODEN: ECPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal LANGUAGE: English
ED Entered STN: 20 Sep 1992
AB Several tannins with anti-HIV activity have been described previously. The tannins chebulinic actd and punicalin are able to block the binding of HIV rgp120 to CD4. These compds. are not toxic to stimulated human peripheral blood lymphocytes at concns. ten times above their maximal effective concentration
IT 110082-89-8
RL: BIOL (Biological study)
(rgp120 of HIV-1 binding to CD4 inhibition by, AIDS therapy in relation to)
RN 110082-89-8 CAPLUS
BEDIOL (Biological study)
(rgp120 of HIV-1 binding to CD4 inhibition by, AIDS therapy in relation to)
RN 110082-89-8 CAPLUS
BEDIOL (BIOLOGICAL STUDY)
(CA INDEX NAME)
ABSOLUTE STEPPORT OF THE PROPERTY OF THE

Absolute stereochemistry.

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ANSWER 42 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

L3 ANSWER 43 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
117:11409 CAPLUS
117:11409 CAPLUS
117:14409 CAPLUS
117

FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

Japanese

JP 1990-142948 JP 1989-337741 JP 1989-337742 JP 03232851 PRIORITY APPLN. INFO.: 19911016 19900531

NRITY APPLM. INFO:

JP 1989-337741

Al 19891226

Entered STN: 11 Jul 1992

An aldose reductase inhibitor contains a sulfuric acid ester of tannic acid, pentagalloylquinic acid, or 3,4,5-trigalloylquinic acid, epicatechin, 3,4-digalloylquinic acid, or 3,4,5-trigalloylquinic acid. These sulfate esters are less toxic than the parent compds., show high H2O-solubility and stability in an aqueous solution, are useful for treatment of diabetes complications such as catacact, retinopathy, kidney diseases, and nerve disturbance. Rutin sulfuric acid ester (I) containing 13.3% S at 10 µg/mL inhibited aldose reductase by 8% compared to 74% for rutin. When HL-60 cells 4.5 + 104/mL were cultured in a medium containing I 300 µg/mL, the cell count number was 9.1 + 105/mL after 3 days compared to 6.5 + 105/mL for rutin.

139203-27-3

RL: BIOL (Biological study)
(aldose reductase inhibitor)

139203-27-3 CAPLUS

Benzolc acid, 3,4,5-trihydrosy-, 5-carboxy-5-hydroxy-1,2,3-cyclobexanetriyl ester, hydrogen sulfate, (la,2a,3p,5.alp ha.)- (9CI) (CA INDEX NAME)

CRN 99745-62-7 CMF C28 H24 O18

CM 1

Relative stereochemistry.

L3 ANSWER 43 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CH 2

CRN 7664-93-9 CMF H2 O4 S

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

. PAGE 2-A

PAGE 1-A

91431-99-1 CAPLUS D-chiro-Inositol, 2-decmy-, 1,3,4,5-tetrakis(3,4,5-trihydromybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:603117 CAPLUS
DOCUMENT NUMBER: 1091:603117 CAPLUS
DOCUMENT NUMBER: 105:203117
TITLE: Comparative antibacterial activity of quercitol
gallates
AUTHOR(S): Serit, Muney: Okubo, Tsutomur Hagivara, Nobuyuki; Kim,
Mujo; Nonaka, Genichiro; Nishioka, Itsuo; Yamanoto,
Takehiko
CORFORATE SOURCE: Cent. Res. Lab., Taiyo Kagaku Co., Ltd., Yokkaichi,
510, Japan
SOURCE: Apricultural and Biological Chemistry (1991), 55(7),
1893-4
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 15 Nov 1991
AB (+)-Protoquercitol gallates and scylloquercitol gallates were evaluated
for their antibacterial activity against Bacillus coagulens, B. brevis,
Escherichia coli and Pseudomonas aeruginosa. With one exception, all the
compds, testes whibited good activity. The effects of structure on
activity are discussed.

IT 91031-96-0 91431-99-1 91465-75-7
107724-19-6 107794-84-3 107794-86-5
13G378-57-9 10378-58-0
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified), BIOL (Biological study)
(Dactericidal activity of)
RN 91431-96-8 CAPUS
CN D-chiro-Inositol, 2-deoxy-, 3,4,6-tris(3,4,5-trihydroxybenzoate) (9CI)

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

91465-75-7 CAPLUS D-chiro-inositol, 2-deoxy-, 3,4,5-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

PAGE 1-A

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

107724-19-6 CAPLUS myo-Inositol, 2-deoxy-, 1,4,5,6-tetrakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

PAGE 1-A

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

107794-84-3 CAPLUS myo-Inositol, 2-deoxy-, pentakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

107794-86-5 CAPLUS D-chiro-Inositol, 2-deoxy-, 3,4-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

136378-57-9 CAPLUS myo-Inositol, 2-decay-, 1,6-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 44 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

136378-58-0 CAPLUS myo-Inositol, 2-decmy-, 1,5,6-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

L3 ANSWER 45 OF 70 CAPLUS COPYRIGHT 2007 ACS on STM
ACCESSION NUMBER:
1991:240605 CAPLUS
1111LE:
1111LE:
11NVENTOR(S):
Nonaka, Genichtro: Lee, Kouhsiung: Cheng, Yung Chi;
Kilkuskie, Robert E.
Vource:
Vource

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9004968 A1 19900517 WO 1989-U54807 19891031

V: JP

RW: AT, BE, CH, DE, FR, GB, LT, LU, NL, SE
CA 2001898 A1 19900430 CA 1989-2001898 19891031

PRIORITY APPLN. INFO.:

Entered STN: 28 Jun 1991

B Reverse transcriptase (RT) of a human retrovirus is inhibited by tannins.
3,5-Di-O-galloyl-4-O-digalloylouinic acid (1) was isolated and purified along with 4 other galloylquinic acids from tannic acid. I at 100 μM inhibited HU-1 growth in H9 lymphocytes by 70%, uninfected H9 cell growth was inhibited 14%.

In 10082-89-8P 125537-30-1P 129159-07-5P
133962-59-IP
RL: PREF (Preparation)
(purification and reverse transcription of human immunodeficiency virus inhibition with)

RN 110082-89-8 CAPLUS

CN Benzoic acid. 3,4,5-trihydroxy-, 4-carboxy-6-hydroxy-1,2,4-cyclohexametriyl ester, [IR-(1α,2β,4α,6α)]- (9CI)

Absolute stereochemistry.

ANSWER 45 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

2

CRN 149-91-7 CMF C7 H6 O5

129159-07-5 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, 5-carboxy-4-cyclohexene-1,2,3-triylester, [1R-(1a,2β,3β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 45 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

125637-30-1 CAPLUS Benzoic acid, 3,4 (or 3,5)-dihydroxy-5 (or 4)- $\{(3,4,5-trihydroxybenzoyl)oxy\}$ -, 4-carboxy-4-hydroxy-2,6-bis $\{(3,4,5-trihydroxybenzoyl)oxy\}$ cyclohexyl ester, $\{15-\{1a,2a,4a,6\beta\}\}$ - (9CI) (CA INDEX NAME)

CM 1

CRN 94414-04-7 CMF C28 H24 O18

Absolute stereochemistry.

L3 ANSWER 45 OF 70 CAPILIS COPYRIGHT 2007 ACS on STN (Continued)

133962-59-1 CAPLUS
Benzoic acid, 3,4-dihydroxy-5-[(3,4,5-trihydroxybenzoyl)oxy]-,
5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl ester,
[15-(1e,2β,3β,5β)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

99745-62-7P, 3,4,5-Tri-O-galloylquinic acid RL: PREF (Preparation) (purification of and reverse transcriptase of human immunodeficiency

s inhibition with) 99745-62-7 CAPUS Benzoic acid, 3.4,5-trihydroxy-, (1R,2m,3R,5m)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Page 34

L3 ANSWER 45 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.

86687-37-8
RL: BIOL (Biological study)
(reverse transcriptase of human immunodeficiency virus response to)
86697-37-8
CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

123166-70-1
RL: BIOL (Biological study)
(reverse transcriptase of human retrovirus inhibition with)
123166-70-1 CAPLUS
Benzoic acid, 3.4,5-trihydromy-, (IR, Za, 3R, Sa)-5-carbomy1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 46 OF 70 CAPLUS COPTRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:203549 CAPLUS
TITLE: 114:203549 Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: Polyphenols from leaves of Euphorbia hirta L
CORPORATE SOURCE: ZEARSJ, 155N: 1001-5302
COURSE ZEARSJ, 155

L3 ANSWER 45 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

L3 ANSWER 47 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
1991:160586 CAPLUS
114:160586
TITLE:
AUTHOR(S):
AUTHOR(S):
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
CORPORATE SOURCE:
SOURCE:
SOURCE:
SOURCE:
CORPORATE SOURCE:
SOURC

DOCUMENT TYPE: LANGUAGE:

19-23
CODEN: ABCHA6; ISSN: 0002-1369
JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL JOURNAL BENGLISH
ENtered STN: 03 May 1991
An ethanol extract of Quercus acuta trunk showed antibacterial activity against both gram-pos, and gram-neg, bacteria. The extract was sequentially partitioned with n-hewane, chloroform, Et acetate and water, and the highest activity was observed in the Et acetate fraction. Two active wids.

ds.
isolated from the Et acetate fraction were 4,5-di-O-galloyl
(+)-protoquercitol and 3,5-di-O-galloyl protoquercitol, of which the
former was the major active constituent. Gallic acid was also isolated
from the same fraction, but it was not active.
133201-11-3
REL BIOL (Biological study)
(antibacterial compound, from Quercus acuta)
133201-11-3 CAPLUS
D-chiro-Inositol, 2-deoxy-, 4,5-bis(3,4,5-trihydroxybenzoate) (9CI) (CA
INDEX NAME)

IT

L3 ANSWER 48 OF 70 CAPLUS COPYRIGHT 2007 ACS On STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1114:78592 CAPLUS
1114:78592
Tannins and related compounds. XCIV. Isolation and characterization of seven new hydrolyzable tannins from the leaves of Macaranga tanarius (L.) Muell. et

AUTHOR(S):

AUTHOR(S):

Lin, Jer Huei; Nonaka, Genichiro; Nishioka, Itsuo
CORPORATE SOURCE:

Fac. Pharm. Sci., Ryushu Univ., Fukuoka, 812, Japan
Chemical & Pharmacutical Bulletin (1990), 38(5),
1218-23
CODEN: CPBTAL; ISSN: 0009-2363

COURNET TYPE:

Journal
LANGUAGE:

English
ED Entered STN: 09 Mar 1991

AB Seven new hydrolyzable tannins were isolated from the leaves of M.
tanarius (Euphorbiaceae), together with 21 known tannins. On the basis of
chemical and spectroscopic evidence, the structures of these new compds.

established as 1,4-di-O-galloyl-e-D-glucopyranose, 3,4-di-O-galloyl-o-glucopyranose, galloylpunicafolin, galloylgeranin, 1-O-galloyl-3-O-brevifolincarboxyl-B-D-glucopyranose, 1,2,4-ti-O-galloyl-3,6-(S)-hexahydroxydiphenoyl-B-D-glucopyranose (macaranganin) and 1,2,4-tri-O-galloyl-3,6-dehydrohexahydroxydiphenoyl-B-D-glucopyranose (tanarinin), 86687-37-8, 3,4-Di-O-galloylquinic acid RI: BIOL (Biological study)

(from Mancaranga tanarius)
86687-37-8 CAPIUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 49 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
EtOAc to remove pyridine. The aq. layer was dialyzed 7 days against H20
to give, after lyophilization, 323.4 mg Na salt of III sulfate (IV) (S
content 13.0 wt.%). IV at 6 mg/mL increased the survival rate of
HTIV-IIIB-infected MT-4 cells by 93% after 6 days of inoculation.
Similarly prepd. were the Na salts of sulfated ellagic acid,
(-)-epicatechin, (-)-epigallocatechin-3-gallate, 1,2,3,4,6-penta-0-galloyl-p-0-glucose, 3,4-digalloylquinic acid, and 3,4,5-trigalloylquinic
acid.
53505-97-8P 99745-62-7P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT
(Reactant or reagent)
(preparation and sulfation of, by chlorosulfonic acid)
53505-97-9 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (IR,25,3R,5R)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry

99745-62-7 CAPLUS Benzolc acid, 3,4,5-trihydroxy-, (1R,2m,3R,5m)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 49 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1991:7086 CAPLUS DOCUMENT NUMBER: 114:7086
TITLE: PERDAPATE A COPYRIGHT 2007 ACS ON STN 120:7086

114:7086
Preparation of sulfated tannins and their salts as reverse transcriptase inhibitors and antiviral agents Fukuchi, Akiras Ivamoto, Masaya Uchino, Keijiro; Ogawara, Hiroshir Nakashima, Hidekir Yamamoto, Naoki, Hirayama, Fukushir, Hiramoto, Masashir Yamamoto, Hirayama, Fukushir, Hiramoto, Habashir, Yamamoto, Hirokazur Kadota, Shigenobu Yamanouchi Pharmaceutical Co., Ltd., Japan; Nippon Flour Mills Co., Ltd., Japan; Nippon Flour Mills Co., Ltd., Japan; Nippon Flour Mills Co., Pat. Appl., 41 pp. COUEN. EPXXXVV INVENTOR (S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent English 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 374888	λ2	19900627	EP 1989-123562	19891220
EP 374888	A3	19911016		
R: AT, BE, CH,	DE, ES	, FR, GB, G	R, IT, LI, LU, NL, SE	
JP 03072490	A	19910327	JP 1989-323276	19891213
US 5159069	A	19921027	US 1989-450912	19891214
ZA 8909731	λ	19900926	ZA 1989-9731	19891219
CA 2006263	A1	19900620	CA 1989-2006263	19891220
PRIORITY APPLN. INFO.:			JP 1988-320947 A	19881220
			JP 1989-121700 A	19890516

OTHER SOURCE(S): MARPAT 114:7086 ED Entered STN: 12 Jan 1991

The title compds. (I, II; R - H, SO3H, provided that at least one of the substituents R - SO3H; Rl - H, SO3H, Q) or their salts, inhibiting syncytium formation and useful for treating patients infected with a virus, particularly AIDS virus, herpes virus, influenza virus, or thinovirus, are prepared by reacting tannin with a sulfonating agent under basic conditions, the tannin being selected from hydrolyzable tannins and polyhydric phenols obtained by hydrolyzing the hydrolyzable tannins. Thus, to a suspension of 300 mg tannic acid (III) (Wako Pure Chemical Industries, Ltd.) in 45 mL pyridine was added 11.4 g CISO3H dropwise with ice-cooling and the mixture was stirred 2 days at room temperature, treated

H2O under ice cooling, neutralized with saturated aqueous NaHCO3, and extracted with

ANSWER 49 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

53505-97-8DP, sulfuric acid esters, sodium salts
99745-62-7DP, sulfuric acid esters, sodium salts
RL: SPN (Synthetic preparation); PREF (Preparation)
(preparation of, as virucide and reverse transcriptase inhibitor)
53505-97-8 CAPUS
Benzoic acid, 3,4,5-trihydromy-, (1R,2S,3R,5R)-5-carbomy-3,5-dihydromy-1,2-cyclohemanediyl ester (9CI) (CA INDEX NAME)

99745-62-7 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2q,3R,5q)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 49 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Li ANSVER 50 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:568816 CAPLUS

DOCUMENT NUMBER: 113:168816

ANTI-AIDS agents. 2: Inhibitory effects of tannins on HIV reverse transcriptase and HIV replication in H9

Lymphocyte cells

Nonaka, Genichtror Nishioka, Itsuor Nishizava, Makotor Yamagishi, Takashi, Kashiwada, Yoshiki; Dutschman, Ginger E., Bodner, Anne J., Kilkuskie, Robert E.;

CORPORATE SOURCE: Scheme, Yung Chir Lee, Kuo Hsiung

SOURCE: Johnson, Yung Chir Lee, Kuo Hsiung

SOURCE: JOHNSON, TONE, North Carolina, Chapel Hill, NC, 27599, USA

JOURNAI OF PAREM, Univ. North Carolina, Chapel Hill, NC, 27599, USA

DOCUMENT TYPE: JOURNAI OF TONE, TONE

Absolute stereochemistry.

L3 ANSWER 50 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

129159-07-5 CAPLUS
Benzoic acid, 3,4,5-tribydromy-, 5-carbomy-4-cyclohemene-1,2,3-triyl ester, [1R-(1a,2B,3B)]- (9CI) (CA INDEX NAME)

L3 ANSWER 50 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) L3 ANSWER 51 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1990:121008 CAPLUS DOCUMENT NUMBER: 112:121008

DOCUMENT NUMBER: TITLE:

112:121008

Rydrolysis by fermentation of tannins from gall nuts

Regerat. F.; Pourrat, H.; Pourrat, A.

Lab. Pharmacogn. Biotechnol., Fac. Pharm.,

Clermont-Ferrand, 63001, Fr.

Journal of the American Leather Chemists Association

(1989). 84(11), 323-9

CODEN: JALCAQ; ISSN: 0002-9726

Journal AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

Journal
English
Entered STN: 31 Mar 1990
Tannin extract of gall nuts from the oak (Quercus infectoria) was hydrolyzed by the tannase of a selected strain of Aspergillus niger. Hydrolysis of polygalloylglucose and polygalloylquinic esters' occurred in the same way in tannins from sumac and tara and was complete in 22 to 30 h. High yields of gallic acid were obtained.
52238-34-3
RL: RCT (Meartrait)

RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrolysis of, by tannase from Aspergillus niger, gallic acid
preparation

by) 52238-34-3 CAPLUS

Seziola-1 articol 3-[(3,4-dihydroxy-5-[(3,4,5-trihydroxybenzoyl) oxy]benzoyl] oxy]-4,5-dihydroxy-, 5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl) oxy]cyclohexyl ester, (1a,2\(\theta\),3\(\theta\),5\(\theta\) (OX INDEX NAME)

Relative stereochemistry.

PAGE 1-A

DOCUMENT NUMBER: TITLE:

ANSWER 52 OF 70 CAPLUS COPYRIGHT 2007 ACS on STM
1990:111495 CAPLUS
112:111495
E: Characterization of a novel inhibitor of human DNA
DNA(S): Parker, William B., Nishizawa, Makotor Fisher, Michael
H., Ye, Ning; Lee, Rio Hsiung; Cheng, Yung Chi
CRE: Biochemical Pharmacology (1989), 38 (21), 3759-65
COURT TYPE: DOURNEL

CSS STM CONTROL SCORE

ACC STREET TYPE: DOURNEL

CONTROL SCORE

CONTROL SCORE AUTHOR (S): CORPORATE SOURCE:

DOCUMENT TYPE:

NOTE: Biochemical Pharmacology (1989), 38(21), 3759-65 CODEN: ENCRG 15SN: 0006-2952

MENT TYPE: Journal SUAGE: Golden State of Code State of

of developing antitumor drugs targeted at DNA polymerases.

86687-37-8, 3,4-Di-O-galloylquinic acid 99745-62-7,
3,4,5-Tri-O-galloylquinic acid 125369-71-3 125637-29-8

125637-30-1 125710-35-2

RL: BIOL (Biological study)

(DNA polymerase-inhibiting activity of, in humans, antitumor activity and structure in relation to)

96687-37-8 CAPLUS

Benzoic acid, 3,4,5-trihydromy-, (1R,2R,3R,5S)-5-carbomy-3,5-dihydromy-1,2-cyclohemanediyl ester (9CI) (CA INDEM NAME)

Absolute stereochemistry.

L3 ANSWER 51 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

ANSWER 52 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

99745-62-7 CAPLUS Bracola caid, 3,4,5-trihydromy-, (1R,2m,3R,5m)-5-carbomy-5-hydromy-1,2,3-cyclohexametriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

125369-71-3 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2a,3R,5a)-5-hydroxy-5(methoxycarbonyl)-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 52 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

125637-29-8 CAPLUS
Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-{(3,4,5-trihydroxybenzoyl)oxy},5-carboxy-3,5-dihydroxy-2-{(3,4,5-trihydroxybenzoyl)oxy}cyclohexyl
ester, [1R-(1a,2B,3B,5B)]- (9CI) (CA INDEX NAME)

CRN 86687-37-8 CMF C21 H20 O14

Absolute stereochemistry.

CM 2

CRN 149-91-7 CMF C7 H6 05

L3 ANSWER 52 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

125710-35-2 CAPLUS
Benzoic acid, dihydroxy[(3,4,5-trihydroxybenzoyl)oxy]-,
4-carboxy-2,4-dihydroxy-6-[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl ester
(9CI) (CA INDEX NAME)

CM 1

CRN 86697-37-8 CMF C21 H20 O14

Absolute stereochemistry.

L3 ANSWER 52 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

125637-30-1 CAPLUS Benzoic acid, 3,4(or 3,5)-dihydroxy-5(or 4)-[(3,4,5-trihydroxybenzoyl)oxy]-,4-carboxy-4-hydroxy-2,6-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexylester, [15-(1 α ,2 α ,4 α ,6 β)]- (9CI) (CA INDEX NAME)

CH 1

CRN 94414-04-7 CMF C28 H24 O18

Absolute stereochemistry.

L3 ANSWER 53 OF 70
ACCESSION NUMBER:
1989:570963 CAPLUS
111:170963
111:170963
ANTHOR(S):
AUTHOR(S):
AUTHOR(S):
CORPORATE SOURCE:
CORPORATE

I, R-digalloyl, R1-galloyl

II, R=galloyl, R1=digalloyl

Four new tetragalloylquinic acids, 3,5-di-O-galloyl-4-O-digalloylquinic acid (II) 3,4-di-O-galloyl-5-O-digalloylquinic acid (II) 3-O-digalloyl-4,5-di-O-galloylquinic acid, and 1,3,4,5-tetra-O-galloylquinic acid, were isolated from a com. tannic acid as a new class of human immunodeficiency virus (HIV) reverse transcriptase (RT) inhibitor. The lst 3 compds. inhibit HIV RT activity 90, 89, and 848 at 100 µM and 73, 70, and 638 at 30 µM, resp. All 4 compds. inhibit the HIV growth in cells in the range of 61-70% with low cytotoxicity at 25 µM. The HIV cells inhibitory effects of these compds. at 25 µM and 525 µM (44-574) are comparable to their effects against the HIV RT at 30 µM and 10 µM, resp. The inhibitory effects against the HIV RT at 30 µM and 10 µM, resp. The inhibitory effect of II against DNA polymerases indicates that the selective untiviral action of II is determined by more than its action with HIV RT. 9745-62-77, 3,4,5-tri-O-galloylquinic acid 123134-20-3P 123166-69-8P 123166-70-1P 31316-70-1P 3145-62-70 LP REV (Preparation)

RLE BNC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREF (Preparation) activity of 99745-62-7 CAPUS

Benzolc acid, 3,4,5-trihydroxy-, (1R,2s,3R,5s)-5-carboxy-5-

99745-62-7 CAPUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2m,3R,5m)-5-carboxy-5-hydroxy-1,2,3-cyclohemanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 53 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

123134-20-3 CAPLUS
Benzoic acid, 3,5-dihydroxy-4-[(3,4,5-trihydroxybenzoyl)oxy]-,
5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl ester,
[IR-[1e,2e,3p,4e])- (9CI) (CA INDEX NAME)

123166-69-8 CAPLUS
Benzoic acid, 3,5-ddhydroxy-4-[(3,4,5-trihydroxybenzoyl)oxy]-,
5-carboxy-5-hydroxy-2,3-bis[(3,4,5-trihydroxybenzoyl)oxy]cyclohexyl ester,
[1R-(1a,2B,3B,5B))- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 53 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

123166-70-1 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy1,2,3,5-cyclohexanetetrayl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 54 OF 70 CAPLUS COPTRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:21078 CAPLUS
DOCUMENT NUMBER: 110:21078
TITLE: Tannins and related polyphenols of Euphorbiaceous plants. IV. Euphorbins A and B, novel dimeric dehydrocellagitamnins from Euphorbia hirta L
AUTHOR(S): Yoshida, Takashi; Chen, Ling; Shingu, Tetsuro; Okuda, Takuo;

Fac. Pharm. Sci., Okayama Univ., Tsushima, 700, Japan Chemical & Pharmaceutical Bulletin (1988), 36(8), 2940-9 CODEN: CPBTAL: ISSN: 0009-2363 CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

MENT TYPE:

Journal
BUSE: English
Entered STN: 21 Jan 1989

Two new dimeric dehydroellagitannins, named suphorbin A and suphorbin B were isolated from the aerial parts of E. hirts, and their structures, containing 4Cl and 1C4 glucopyranose residues and a dehydrohexahydroxydibenzoyl group, were subudated on the basis of chemical and spectral studies. Five monomeric hydrolyzable tannins, i.e., 2,4,6-tri-0-galioyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,3,4,6-terta-0-galloyl-P-D-glucose, 1,2,4,6-tri-0-galloyl-P-D-glucose, gerantin, and terchebin, as well as 2 quinto acid esters, i.e., 5-0-0-affeoylquinic acid and 3,4-di-0-galloylquinic acid, and 3 flavonol glycosides were also isolated. 53505-97-8 CAPUS

BRICE Carlos Caphorbia hirtal 153505-97-8 CAPUS

Absolute stereochemistry.

ANSWER 55 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1997:512636 CAPLUS
COUNTY NUMBER:
107:112636
TITLE:
Tannins and related compounds. Part 57. Gallic acid esters of proto-quercitol, quinic acid and (-)-shikimic acid from Quercus mongolica and Q. myesineefolia
AUTHOR(S):

AUTHOR(S):
Ishimatu, Kanji, Nonaka, Genichiro, Nishioka, Itsuo
Fac. Phatm. Sci., Kyushu Univ., Fukuoka, 812, Japan
Phytochemistry (1987), 26(5), 1501-4
CODENT TYPE:
DOCUMENT TYPE:
Journal
LANGUAGE:
English
ED Entered STN: 05 Oct 1987
AB Six new gallotannins: 1-O- and 1,4-di-O-galloyl proto-quercitols,
1,4-di-O- and 1,3,4-tri-O-galloylutnic acids, and 4-O- and
5-O-galloyl(-)-shikimic acids were isolated from acorns of Q. monogolica
and leaves of Q. myrsinaefolia and their structures elucidated on the
basis of chemical and spectroscopic evidence.

IT 86687-37-8
RL: BIOL (Biological study)
(from Quercus species)
RN 86687-37-8 CAPLUS
CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2cyclohexanedyl ester (9CI) (CA INDEX NAME)

110082-89-8 RL: BIOL (Biological study) (from Quercus species, isolation and structure determination of) 110082-89-8 CAPLUS Benzoic acid, 3,4,5-trihydromy-, 4-carbomy-6-hydromy-1,2,4-cyclohemanetriyl ester, [$1R-(1\alpha,2\beta,4\alpha,6\alpha)$]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER SS OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 1-A

PAGE 1-A

L3 ANSWER 56 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

107794-82-1 CAPLUS
D-myo-Inositol, 2-deoxy-, 1,6-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 56 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:172897 CAPLUS
DOCUMENT NUMBER: 106:172897
TITLE: Tannins and related compounds. Part 44.

Scyllo-quercitol gallates and hexahydroxydiphenoates
from Quercus stenophylla
Nishimura, Hiroaki; Nonaka, Genichiro; Nishioka, Itsuo
CORPORATE SOURCE: Fac. Pharm. Sci., Kyushu Univ., Fukuoka, 812, Japan
Phytochemistry (1986), 25(11), 2599-604
CODEN: PTTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 29 May 1987
AB A series of gallotannins and ellagitannins based on a scyllo-quercitol
core were isolated from the bark of Q. stenophylla. On the basis of
chemical
and spectroscopic evidence, the structures of the gallotannins were
established as 2-O-, 1,2-di-O-, 1,2,3-tri-O-, 1,2,3,4-tetra-O-, and
1,2,3,4,5-penta-O-galloyl-scyllo-quercitols, and the ellagitannins as
1,5-di-O-galloyl-2,3-(5)-hexahydroxydiphenoyl-scyllo-quercitol and 1,4-(or
4,5)-di-O-galloyl-2,3-(5)-hexahydroxydiphenoyl-scyllo-quercitol
IT 107693-10-7 107724-19-6 107794-82-1

TIOT693-10-7 107724-19-6 107794-82-1

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
BIOL (Biological study); OCU (Occurrence)
(of Quercus stenophylla bark)

NN 107693-10-7 CAPUS

NN 107693-10-7 CAPUS

CN D-myo-Inositol, 2-deoxy-, cyclic 5,6-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate) 3,4-bis(3,4,5-trihydroxybenzoate), [5(5)]-

107724-19-6 CAPLUS myo-Inositol, 2-deoxy-, 1,4,5,6-tetrakis(3,4,5-trihydroxybenzoate) (9CI)(CA INDEX NAME)

ANSWER 56 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) ,

107794-83-2 CAPLUS D-myo-Inositol, 2-deoxy-, 1,5,6-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

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107794-84-3 CAPLUS myo-Inositol, 2-decmy-, pentakis(3,4,5-trihydromybenzoate) [9CI] (CA INDEX NAME)

L3 ANSWER 56 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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107794-86-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation and methylation and oxidation and dinitrophenylhydrazine reaction

tion
with)
107794-96-5 CAPLUS
D-chiro-Inositol, 2-deoxy-, 3,4-bis(3,4,5-trihydroxybenzoate) (9CI) (CA

L3 ANSWER 57 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:28390 CAPLUS
104:28390 CAPLUS
104:28390 Structure and antiherpetic activity among the tanning
AUTHOR(S): Takechi, Masayukir Tanaka, Yasuur Takehara, Manabur,
Nonaka, Genichicro Nishioka, Itsuo
CORPORATE SOURCE: Fac. Pharm. Sci., Kinki Univ., Higashiosaka, Japan
Phytochemistry (Elsevier) (1985), 24(10), 2245-50
CODEN: PYTCAS; ISSN: 0031-9422

SOURCE: Phytochemistry (Elsevier) (1985), 24(10), 2245-50 CODEN: PYTCAS, ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 08 Peb 1986

AB In order to investigate the relationship between the antiherpetic activity and the structure of tannins, the activities of 38 such compds. were examined The results indicate that the activities of hydroylzable tannins were dependent on the number of galloyl or heashydroxydiphenoyl groups and those of condensed ones on the degree of condensation. On the other hand, the more active tannins were the more cytotoxic.

IT 86687-37-8 99745-52-7

RL: BIOL (Biological study) (herpes virus-inhibitory activity and cytotoxicity of, structure in relation to)

RN 86687-37-8 CAPLUS

CN Benzoic acid, 3,4,5-trihydroxy-, (IR,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

99745-59-2 CAPLUS chiro-Inositol, 2-deoxy-, 3,4-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 56 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN INDEX NAME) (Continued)

L3 ANSWER 57 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN . (Continued)

99745-60-5 CAPLUS chiro-Inositol, 2-deoxy-, 3,4,5-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

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99745-61-6 CAPLUS chiro-Inositol, 2-deoxy-, 1,3,4,5-tetrakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 57 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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99745-62-7 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2m,3R,5m)-5-carboxy-5-hydroxy-1,2,3-cyclohemanetriyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L3 ANSWER 57 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

L3 ANSWER 58 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1985:509929 CAPLUS
103:109929
Medicinal tanning from plants
Nippon Shinyaku Co., Ltd., Japan
JDCLURENT TYPE:
DOCUMENT TYPE:
Patent
JANGUAGE.
JANGUAGE.

DOCUMENT TYPE: C. LANGUAGE: James Amily ACC. Num. Count: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60064947	λ	19850413	JP 1984-161807	19840731
JP 60050778	В	19851111		
PRIORITY APPLN. INFO.:		JP 1984-161807	19840731	
ED Entered STN: 04 Oc	t 1985			

Novel, medicinal tannins (I) (where Rl = H or COZH, R2 = H or CH, R3,R4, orR5 = H or galloyl) are isolated from plants such as Quercus stenophylla. Thus, the bark of Q. stenophylla was extracted with 80% Me2CO in H2O, the

Absolute stereochemistry.

L3 ANSWER 58 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

86588-92-3 CAPLUS L-chiro-Inositol, 2-deoxy-, 3,4-bis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

86588-93-4 CAPLUS L-chiro-Inositol, 2-deoxy-, 3,4,5-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 58 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

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(Continued)

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86687-37-8 CAPLUS Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 59 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
102:201372
ANTHE:
New tannins from elm, oak, pomegranate, and tea
Hippon Shinyaku Co., Ltd., Japan
Jon. Rokal Tokkyo Koho, 11 pp.
COUEN: JOXXAF
Patent
LANGUAGE:
FAMILY ACC. NUM. COUNT:
1
CAPLUS COPPRIGHT 2007 ACS on STN
1095:301374
ACAPLUS CAPPUS
1095:301374
ACAPLUS COPPRIGHT 2007 ACS on STN
1095:301374
ACAPLUS COPPRIGHT 2007 ACS ON S

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

A 19841108 B 19870520 PATENT NO. APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

JP 55195884 A 19841108 JP 1983-70774 19830420

JP 62022990 B 19870520

PRIORITY APPIN. INFO.:

DE Entered STN: 15 Jun 1985

AB Twenty-three new tannins were isolated from barks of garden burnet and an evergreen oak, mehirugi (a medicinal plant), and leaves of pomegranate and tea. The tannins were identified and their structure elucidated by optical characteristics, elemental anal., and PMR.

IT 91431-96-8 91431-97-9 91431-99-1

91432-00-7

RL: BOC (Biological occurrence), BSU (Biological study, unclassified), BIOL (Biological study), OCCU (Occurrence)

(of evergreen oak bark)

RN 91431-96-8 CAPLUS

RN 91431-96-8 CAPLUS

(CA INDEX NAME)

L3 ANSWER 59 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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91431-97-9 CAPLUS D-chiro-Inositol, 2-deoxy-, 1,3,4-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 59 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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91431-99-1 CAPLUS D-chiro-Inositol, 2-deomy-, 1,3,4,5-tetrakis(3,4,5-trihydromybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 59 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 1-A

91432-00-7 CAPLUS D-chiro-Inositol, 2-deoxy-, 1,3,4,6-tetrakis(3,4,5-trihydroxybenzoate)
(9CI) (CA INDEX NAME)

L3 ANSWER 60 OF 70

ACCESSION NUMBER:
DOCUMENT NUMBER:
1985:163692 CAPLUS
192:163692
Tannina and related compounds. XXV. A new class of gallotannina possessing a (-)-shikimic acid core from Castanopsis cuspidata var. sieboldii Nakai. (I)
Nonaka, Genichiro Ageta, Masayuki, Nishioka, Itsuo
Fac. Pharm. Sci., Kyushu Univ., Tukuoka, 812, Japan
Chemical & Pharmaceutical Bulletin (1985), 33(1),
96-101
COUNCE:
DOCUMENT TYPE:

96-101
CODEM: CPBTAL; ISSN: 0009-2363
CODEM: CDBTAL; ISSN: 0009-2363
LANGUAGE: Journal
LANGUAGE: English
ED Entered STN: 18 May 1985
A homologous series of (-)-shikimic acid gallates (I-V) was isolated, together with 1,6-di-0-galloyl-9-D-qlucopyranoside,
5-0-galloyl-0-hamamelose, 2'; 5-di-0-galloyl-0-hamamelose, and
2',3,5-tri-0-galloyl-0-hamamelose, from the leaves of C. cuspidata var sleboldii. On the basis of spectroscopic anal., enzymic hydrolysis, and methanolysis, their structures were established as 3-0-gallate (I), 3-0-digallate (II), 3-0-digallate (II), 3-0-digallate (IV), and
3,4-di-0-gallate (V) of (-)-shikimic acid.

RL: BOC (Biological occurrence): BSU (Biological study, unclassified);
BTOL (Biological study): OCU (Occurrence)
(of Castanopsis cuspidata leaves)

N 9573-5-1-8 CAPLUS
CN Bencoic acid, 3,4,5-trihydroxy-, 5-cacboxy-3-hydroxy-4-cyclohexene-1,2-diyl ester, (IR-(Is,28,3B))- (9CI) (CA INDEM NAME)

L3 ANSWER 59 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 61 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:59316 CAPLUS
102:59316 Tannian and related compounds. Part 24. Seven quinic acid gallates from Quercus stenophylla
AUTHOR(S): ANSWER SOURCE: FACE Pharm. Sci., Ryushu Univ., Fukuoka, 812, Japan Phytochemistry (Eleveire) (1984), 23(11), 2621-3
CODEN: PYTCAS, ISSN: 0031-9422
JOURNEL DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: Journal

MENT TYPE: Journal
SUGGE: English
Entered STN: 24 Feb 1985

A chemical investigation of the bark of Q. stenophylla led to the isolation
and characterization of all of the possible structural isomers of quinic
acid gallates, i.e., 3-0-, 4-0-, 5-0-, 3,4-di-0-, 3,5-di-0-, 4,5-di-0-,
and 3,4,5-tri-0-galloylquinic acids. Evidence-for the structures of these
computs. Was obtained from anal. of the IH and 13C NMR spectra, and
hydrolytic studies.
S3505-97-8 86687-37-8 94414-04-7
RL: BOC [Sological occurrence]; BSU [Biological study, unclassified);
BIOL (Biological study); OCCU (Occurrence)
(of oak bark)
S3505-97-8 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (18,25,38,58)-5-carboxy-3,5-dihydroxy-1,2cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

86687-37-8 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 61 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

94414-04-7 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2\alpha,3R,5\alpha)-5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 62 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L3 ANSWER 62 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:507678 CAPLUS
DOCUMENT NUMBER: 101:107678
Enzyme-inhibitory tannins
Nippon Shinyaku Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JOCKAF
Patent
LANGUAGE: 7AMILY ACC, NUM. COUNT: 1 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 59059638	A	19840405	JP 1982-170013	19820928
	JP 61036826	В	19860820		
	JP 61112089	A	19860530	JP 1985-245748	19851031
	JP 62045240	В	19870925		
	JP 61112080	A	19860530	JP 1985-245749	19851031
	JP 01060475	В	19891222		
	JP 61112068	A	19860530	JP 1985-245751	19851031
	JP 61112090	A	19860530	JP 1985-245752	19851031
	JP 62049279	В	19871019		
	JP 61118395	Ä	19860605	JP 1985-245750	19851031
	JP 62049278	В	19871019		
PRI	ORITY APPLN. INFO.:	-		JP 1982-170013	19820928

NOT 20892/8 B

STORY APPLIN. INFO.:

1987/1019

Entered STM: 29 Sep 1984

New types of tannins having enzyme inhibitor activities were isolated from barks of elm, oak, cassia, cinchona, chestnut, etc. The tannins were identified as 3-o-galloyl-28-o-P-0-glucopyranosyl-2a, 3B, 198-trihydroxyolean-24, 28-dioic acid, 2,3-HIDP-4,6-di-o-galloyl glucoses 3,4-HIDP-1,5-di-o-galloyl protoquercitol, 3-o-galloyl-28-o-P-0-glucopyranosyl-2a, 3B, 198-trihydroxylean-12-en-24, 28-dioic acid, and 2,3-HIDP-6-o-galloyl glucose.

19686-12-3

RL: BIOL (Biological study) (enzyme-inhibitory)

16866-12-3 CAPLUS (enzyme-inhibitory)

1686-12-3 CAPLUS (chico-inostic), 2-deoxy-, pentakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

LJ ANSWER 63 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:487476 CAPLUS

DOCUMENT NUMBER: 101:87476

AUTHOR(S): Tannins and related compounds. XIX. Eight new gallotannins containing a proto-quercitol core from Quercus stenophylla Hakino. (3)

Nishimara, Hiroakii Nonaka, Genichiro; Nishioka, Itsuo Fac. Pharm. Sci., Kyushu Univ. 62, Fukuoka, 812, Japan Chemical & Pharmaceutical Bulletin (1984), 32(5), 1741-9

DOCUMENT TYPE: 200EN: CPBTAL; ISSN: 0009-2363

JOURNAL DENIET STR. 15 Sep 1984

AB By a combination of adsorption and partition chromatog., 8 new protoquercitol gallates were isolated from the tannin fraction of the bark of Q, stenophylla (Fagacese). Their structures were characterized mainly by IH-NNR exams. combined with the spin-decoupling techniques as 4,5-di-O-gallate, 3,4,5-tri-O-gallate, 1,2,4,5-tri-O-gallate, 1,3,4,5-tri-O-gallate, 1,3,4,5-tri-O-gallate,

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L3 ANSWER 63 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
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HO OH

RN 91431-97-9 CAPLUS
CN 0-chiro-Inositol, 2-deoxy-, 1,3,4-tris(3,4,5-tribydroxybenzoate) (9CI) (CA INDEX NAME)

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RN 91431-99-1 CAPLUS

L3 ANSWER 63 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

HO OH OH OH OH OH

RN 91432-01-8 CAPLUS CN D-chiro-Inositol, 2-deoxy-, pentakis(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

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L3 ANSWER 63 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM D-chiro-Inositol, 2-deoxy-, 1,3,4,5-tetrakis(3,4,5-trihydroxybenzoate)

(9CI) (CA INDEX NAME)

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RN 91432-00-7 CAPLUS
CN D-chiro-Inositol, 2-deoxy-, 1,3,4,6-tetrakis(3,4,5-trihydroxybenzoate)
(9CI) (CA INDEX NAME)

L3 ANSWER 63 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

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OH OH

N 91465-75-7 CAPLUS N D-chiro-Inositol, 2-deoxy-, 3,4,5-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

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L3 ANSWER 64 OF 70 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1983:476851 CAPLUS DOCUMENT NUMBER: 99:76851

DOCUMENT NUMBER: TITLE:

99: /6851 Tannins Nippon Shimyaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF Patent

PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 58032875 A 19830225 JP 1981-120372 19810730

JP 58031875 B 19850328 JP 1981-120372 19810730

PRIORITY APPLN. INFO:

D Entered 5TN: 12 May 1984

AB Some forty tannins useful as metabolic regulators were isolated from myrica bark, cassia bark, betel-nuts, burnets, Trapa natans, beech bark, deer berry leaves, camphor trees, and chestnut bark. Thus, 6 kg syrica bark was extracted with 10 + 11 AcoEt and chromatographed over Sephadex LH-20 using EtOH and 80% acqueous MeGH as eluting agents to give 70 mg 3'-0-galloylprodelphinidin B-2 [8658-88-7], 0.20% 3.3'-di-0-galloylprodelphinidin B-2 [8658-88-88-7], 0.20% 3.3'-di-0-galloylprodelphinidin B-2 [8658-88-88-7]. 0.20% 3.3'-di-0-galloylprodelphinidin B-2 [8658-88-7]. 0.20%

L-chiro-Inositol, 2-deoxy-, 3,4-bis(3,4,5-trihydroxybenzoate) (9CI) (CA

86588-93-4 CAPLUS L-chiro-Inositol, 2-deoxy-, 3,4,5-tris(3,4,5-trihydroxybenzoate) (9CI) (CA INDEX NAME)

L3 ANSWER 65 OF 70
ACCESSION NUMBER: 1975:81970 CAPLUS
DOCUMENT NUMBER: 2021970
TITLE: Polyphenol-protein interactions
AUTHOR(S): Haslam, Edwin
Dep. Chem., Univ. Sheffield, Sh
Biochemical Javana 82:81970
Polyphenol-protein interactions
Haslam, Edwin
Dep. Chem., Univ. Sheffield, Sheffield, UK
Biochemical Journal (1974), 139(1), 285-8
CODEN: BIJOAK, ISSN: 0264-6021

CODEN: BIJOAK; ISSN: 0264-6021
JOURNAL
LANGUAGE:

English

En Entered STN: 12 May 1984

AS Studies on the precipitation of \$\textit{\textit{P}}\$-glucosidase (EC 3.2.1.21) [9001-22-3] by natural and synthetic polyphenols, e.g. \$\textit{\textit{P}}\$-penta-O-galloyl-D-glucose (I), indicated that the polyphenol-protein complex formation was caused by crosslinking of protein mols. by phenol. Tanning capacity, although related to mol. size, was primarily dependent on the number of sep. sites in the mol. able to associate with the protein, i.e., for the galloylqlucose series, the number of galloyl groups. Thus Tara gallotannin and't have 3 and

Relative stereochemistry.

52238-34-3 CAPLUS Benzolc acid, $3-[3,4-dihydroxy-5-[3,4,5-trihydroxybenzoy1]oxy]benzoy1]oxy]-4,5-dihydroxy-5-bydroxy-2,3-bis((3,4,5-trihydroxybenzoy1)oxy]cyclohexyl ester, <math>(1\alpha,2\beta,3\beta,5\beta)-[9CI)$ (CA INDEX NAME)

L3 ANSWER 64 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

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86687-37-8 CAPLUS
Benzoic acid, 3,4,5-trihydroxy-, (1R,2R,3R,5S)-5-carboxy-3,5-dihydroxy-1,2-cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 65 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

Relative stereochemistry.

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L3 ANSVER 66 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1974:576186 CAPLUS DOCUMENT NUMBER: 81:176186

DOCUMENT NUMBER: TITLE:

Polarimetric analysis of hydroxycinnamic acid esters Dranik, L. I.; Litvinenko, V. I. Khar'k. Nauchno-Issled. Khim.-Farm. Inst., Kharkov, HSCD AUTHOR(S): CORPORATE SOURCE: USSR

USSR Fenol'nye Soedin. Ikh Fiziol. Svoistva, Mater. Vses. Simp. Fenol'nym Soedin., 2nd (1973), Meeting Date 1971, 176-80. Editor(s): Klyshev, L. K. "Nauka" Kaz. SSR: Alma-Ata, USSR. CODEN: 28MLMA.

DOCUMENT TYPE:

LANGUAGE

MENT TYPE: Conference
SUAGE: Russian
Entered STN: 12 May 1984

Polarimetric measurements of the following esters of quinic acid were
performed: 1-caffeyl, 1-feruloyl, 1-(p-coumarcyl), 1-galloyl, 5-caffeyl,
5-(p-coumarcyl), 5-galloyl, 3-pheruloyl, 3-(p-coumarcyl), 3-galloyl,
4-caffeyl, 4-(p-coumarcy), 4-galloyl, 4-5-dicaffeyl, 1,5-dicaffeyl,
1,4-dicaffeyl, and 4,5-digalloyl. For measurements the substances were
dissolved in either HZO, MeOH, or MeZCO. Conformations of the esters
measured were suggested.
53505-97-8

RL: ANT (Analyte): ANST (Analytical study)
(determination of, polarimetric)
53505-97-8 CAPLUS
Benzoic acid, 3,4,5-trihydromy-, (1R,25,3R,5R)-5-carbomy-3,5-dihydromy-1,2cyclohexanediyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

SOURCE:

ANSWER 67 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L3 ANSWER 67 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:506161 CAPLUS
OCCUMENT NUMBER: 79:106161
TITLE: Studies on the solvent extracts and purified extracts of babul (Acacia arabica)
AUTHOR(S): Santhanam, P. S.
CORPORATE SOURCE: Cent. Leather Res. Inst., Madras, India
Leather Science (Madras) (1973), 20(4), 119-23
CODE: LESCAP9, ISSN: 0023-9771
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 May 1984
AB Removal of non-tannins from solvent exts. of babul bark increased the fixation and shrinkage temperature of the tanned leather. The reddish tinge in
babul-tanned leather was due to the polymeric tannin components in babul exts., and leucocyanidin gallate [18696-42-9] was responsible for the good shrinkage temperature given by babul.

I 18696-42-9 CAPLUS
CN Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-bis[(3,4,5-trihydroxybenzoyl) oxy]phenyl]-3,4-dihydro-2H-1-benzopyran-3,4,5,7-tetrayl ester (9CI) (CA INDEX NAME)

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L3 ANSWER 68 OF 70
ACCESSION NUMBER:
DOCUMENT NUMBER:
1968:411431 CAPLUS
69:11431
TITLE:
Phenolic constituents of babul. III. Complexing of phenolic constituents of babul. vith chrome
Santhanam, P. S., Nayudamma, Y.
CORPORATE SOURCE:
SOURCE:
SOURCE:
CORPORATE SOUR

DOCUMENT TYPE: LANGUAGE:

CODEN: LESCA9; ISSN: 0023-9771

MENT TYPE: Journal
UAGE: English

Entered STN: 12 May 1984

A study was made of interaction between vegetable tannins and chrome by observing precipitation and light energy absorbance in the visible range.

following interactions were studied: chrome-babul, chrome-polymeric tan fractions T1 and T2, chrome-leucocyanidin gallate, chrome-catechol, and chrome-gallic acid. Precipitation was observed in all cases except in a nf

e of catechol and gallic acid. No characteristic spectrum of chrome was observed. This suggests that the chrome complex has been changed by vegetable tannins. The soluble complex formation is greatest in the case of gallic acid.

18696-42-9

RE: NCT (Reactant), RACT (Reactant or reagent)

(reaction of, with chromium oxide (Cr203))

18696-42-9 CAPLUS

Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-bis[(3,4,5-trihydroxybenzoyl)oxy]henyl]-3,4-dihydro-ZH-1-benzopyran-3,4,5,7-tetrayl ester (9CI) (CA INDEX NAME)

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L3 ANSWER 68 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 2-A

ANSWER 69 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN

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(Continued)

L3 ANSWER 69 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1968:14108 CAPLUS
68:14108 CAPLUS
AUTHOR(S): Effect of certain constituents of vegetable tanning
liquors on the structure of collagen
AUTHOR(S): Mohanaradhakrishnan, V.; Ramanathan, Natesan
CORPORATE SOURCE: Central Leather Res. Inst., Madras, India
COMPORATE SOURCE: Central Leather Res. Inst., Madras, India
COMPORATE SOURCE: Leather Science (Madras) (1967), 14(10), 285-94
CODEN: LESCA9; ISSN: 0023-9771
DOCUMENT TYPE: Journal
LANGUAGE: English
CODEN: LESCA9; ISSN: 0023-9771
DOCUMENT TYPE: Journal
LANGUAGE: English
The effects of the individual components of vegetable tan liquors such as catechol (I), leucocyanidin gallate (II), gallic acid (III), ellagic acid (IV), chebulinic acid (V) and quercetin on collagen fibers were investigated by using electron microscopy, shrinkage temps., and the phys. properties of the fiber. Limed, delimed, and acetone-dehydrated kangaroo tail tendon collagen fibers along with small pieces of similarly processed goat pelts were used for the expts. The fibers were soaked overnight in a 0.5% solution of the above-mentioned components. The liquid/goods ratio was kept at 10:1, simulating the usual tannery practice. After the solvent tannage, the samples were washed with 3 changes of H2O at pH 4.0 for about 10 min. Control fibers were treated in similar manner. The washed fibers were conditioned at 80°7, and 30° relative humidity for 1 week. They were then investigated. The results showed that I and II increased the shrinkage temperature slightly, while III, IV, and V decreased it to a slight extent.

change in hydrothermal and mech. properties was explained by electron-microscope observations. The effect of the individual constituents was different than when they were present together. 18696-42-9

RI: USES (Uses)
(collagen mol. structure in relation to)
18696-42-9 CAPUS
Benzolc acid, 3.4,5-trihydroxy-, 2-{3.4-bis([3,4,5-trihydroxy-benzoyl)ary)phenyl]-3,4-dihydro-ZH-1-benzopyran-3,4,5,7-tetrayl ester (GCI) (CA INDEX NAME)

IT

L3 ANSWER 70 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:73058 CAPLUS
SOCIUMENT NUMBER: 59:73058
ORIGINAL REFERENCE NO.: 59:124576-g
Gallotannins. VIII. The preparation and properties of some galloyl esters of quinic acid
Haslam, E., Havorth, R. D., Lawton, D. A.
CORPORATE SOURCE: Univ. Sheffield, UK
JOURNAL of the Chemical Society (1963) 2173-81
CODEN: JCSOA9; ISSN: 0368-1769

DOCUMENT TYPE: LANGUAGE: ED Entered S' AB cf. CA 57

Journal of the Chemical Society (1963) 2173-81
CODEN: JCSOA9; ISSN: 0368-1769
JOURNAT TYPE: Journal
GUAGE: Unavailable
Entered STN: 22 Apr 2001
cf. CA 57, 15213e. The four isomeric mono-O-galloylquinic acids have been synthesized and their properties described. The structure of the "core" of Tara gallotannin, as 3,4,5.tri-O-galloylquinic acid, has been confirmed by synthesized and their preparation of 4,5-O- and 1,3,4,5-tetra-O-galloylquinic acid is reported.
100164-98-5P, Gallic acid, 5-carboxy-3,5-dihydroxy-1,2-cyclohexylene ester 102289-18-9P, Gallic acid, 5-carboxy-1,2-dyclohexylene ester, 7-lactone, Et carbonate 103369-47-TP, Gallic acid, 5-carboxy-5-hydroxy-1,2,3-cyclohexnetriyl ester 105505-31-1P, Gallic acid, tetraester with 1,3,4,5-tetrahydroxycyclohexnecarboxylic acid
RL: PREP (Preparation)
(preparation of)
100164-99-5 CAPLUS
Gallic acid, 5-carboxy-3,5-dihydroxy-1,2-cyclohexylene ester (7CI) (CA INDEX NAME)

102289-18-9 CAPLUS
Gallic acid, 5-carboxy-3,5-dihydroxy-1,2-cyclohexylene ester,
γ-lactone, ethyl carbonate (7CI) (CA INDEX NAME)

L3 ANSWER 70 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 103369-47-7 CAPLUS CN Gallic acid, 5-carboxy-5-hydroxy-1,2,3-cyclohexanetriyl ester (7CI) (CA INDEX NAME)

RN 106505-31-1 CAPLUS
CN Gallic acid, tetraester with 1,3,4,5-tetrahydroxycyclohexanecarboxylic acid (7CI) (CA INDEX NAME)

L3 ANSWER 70 OF 70 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)